

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

May 18, 2009

Mr. Bill Biddlecome U.S. Army Corps of Engineers Regulatory Field Office Post Office Box 1000 Washington, NC 27889-1000 Mr. Jim Hoadley
Division of Coastal Management
N. C. Dept. of Env. & Natural Resources
1367 U. S. Highway 17
Elizabeth City, NC 27909

Dear Sirs:

Subject: Nationwide 23 Permit Application, and CAMA Major Development Permit Application for the replacement of Bridge #44 over the Roquist Creek on SR 1100 in Bertie County. State Project No. 8.2010701. Federal Aid Project Number BRZ-1100(17). Debit \$400.00 from WBS 33701.1.1.TIP No. B-4435.

Please find enclosed the North Carolina Division of Coastal Management Major Permit Forms 1 and 5, PCN form, Stormwater Permit, permit drawings, half-size plan sheets, utility drawings, and adjacent riparian landowner certified mail receipts for the above referenced project. A Categorical Exclusion (CE) was completed for this project on March 4, 2008, and distributed shortly thereafter. Additional copies are available upon request. The North Carolina Department of Transportation (NCDOT), Division of Highways, in consultation with the Federal Highway Administration (FHWA), proposes to replace Bridge No. 44 in Bertie County. Let Date is January 19, 2009 and the Review Date is December 1, 2009.

Regulatory Approvals

<u>CAMA</u>: NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Development Permit. The landowner certified mail receipts are provided with this permit application. Authorization to debit the \$400 Permit Application Fee from WBS Element 33701.1.1 is hereby given.

<u>Section 404 Permit</u>: All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The NCDOT requests that a Nationwide Permit 23 authorize these activities.

Section 401 Permit: We anticipate 401 General Certification number 3701 will apply to this project. NCDOT will adhere to all standard conditions of this certification, and therefore is not

requesting written approval. NCDOT is providing two copies of this application to the North Carolina Department of Environmental and Natural Resources, Division of Water Quality, for their review. NCDOT received a Stormwater Permit (SW7090402), dated April 9, 2009, from NCDWQ (attached).

A copy of this permit application will be posted on the NCDOT website at: http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html

If you have any questions or need additional information, please call Mr. Chris Manley, at 919-431-6746.

Sincerely Lusk

Gregory J. Thorpe, Ph.D. Environmental Management Director Project Development and Environmental Analysis Branch

cc List:

W/attachment

Mr. Brian Wrenn, NCDWQ (2 Copies)

Ms. Cathy Brittingham, NCDCM

W/o attachment (see website for attachments)

Mr. Scott McLendon, USACE, Wilmington

Mr. Travis Wilson, NCWRC

Mr. Gary Jordan, USFWS

Mr. Ron Sechler, NMFS

Ms. Anne Deaton, NCDMF

Dr. David Chang, P.E., Hydraulics

Mr. Greg Perfetti, P.E., Structure Design

Mr. Mark Staley, Roadside Environmental

Mr. Victor Barbour, P.E., Project Services Unit

Mr. Anthony Roper, P.E., Division 1 Engineer

Mr. Clay Willis, Division 1 Environmental Officer

Mr. Jay Bennett, P.E., Roadway Design

Mr. Majed Alghandour, P. E., Programming and TIP

Mr. Art McMillan, P.E., Highway Design

Ms. Christie Wright, P.E., PDEA Project Planning Engineer





Office Use Only:	
Corps action ID no.	
DWQ project no.	
Form Version 1.3 Dec 10 2008	

	Pre-Construction Notification (PCN) Form				
A.	Applicant Information				
1.	Processing		***************************************		
1a.	Type(s) of approval sought from Corps:	the	Section 404 Permit ☐ S	ection 10 Permit	
1b.	Specify Nationwide Permit (NWP) number: 2	3 or General Permi	t (GP) number:	
1c.	Has the NWP or GP number bee	n verified b	y the Corps?	☐ Yes	⊠ No
1d.	Type(s) of approval sought from	the DWQ (check all that apply):		
	☐ 401 Water Quality Certificatio	n – Regula	Non-404 Jurisdict	tional General Pern	nit
	☐ 401 Water Quality Certificatio	n – Expres	Riparian Buffer A	uthorization	
1e.	Is this notification solely for the rebecause written approval is not re		For the record only for DWQ 40 Certification:	For the record	d only for Corps Permit:
			☑ Yes ☐ No	☐ Yes	☐ No
1f.	1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program. ☐ Yes ☐ No				⊠ No
1g.	Ig. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h			□ No	
1h.	Is the project located within a NC	DCM Area	of Environmental Concern (AEC	:)? 🛛 Yes	□No
2.	Project Information				
2a.	Name of project:	Replacme	ent of Bridge 44 over Roquist Cre	ek on SR 1100	
2b.	County:	Bertie			
2c.	Nearest municipality / town:	Windsor	·		
2d.	Subdivision name:	not applic	able		
2e.	NCDOT only, T.I.P. or state project no:	B-4435	·	· · · · · · · · · · · · · · · · · · ·	
3.	Owner Information				
За.	Name(s) on Recorded Deed:	North Car	olina Department of Transportati	ion	
3b.	Deed Book and Page No.	not applic	able		
3с.	Responsible Party (for LLC if applicable):	not applic	able		
3d.	Street address:	1598 Mail	Service Center		
3e.	City, state, zip:	Raleigh, I	NC 27699-1598		
3f.	Telephone no.:	(919) 431	-6746		
3g.	Fax no.:	(919) 431	-2002		
3h.	Email address:	cdmanley	@ncdot.gov		

4.	Applicant Information (if different from owner)				
4a.	Applicant is:	Agent Other, specify:			
4b.	Name:	not applicable			
4c.	Business name (if applicable):				
4d.	Street address:				
4e.	City, state, zip:				
4f.	Telephone no.:				
4g.	Fax no.:				
4h.	Email address:				
5.	Agent/Consultant Information (if applicable)				
5a.	Name:	not applicable			
5b.	Business name (if applicable):				
5c.	Street address:				
5d.	City, state, zip:				
5e.	Telephone no.:				
5f.	Fax no.:				
5g.	Email address:				

В.	Project Information and Prior Project History	
1.	Property Identification	
1a.	Property identification no. (tax PIN or parcel ID):	not applicable
1b.	Site coordinates (in decimal degrees):	Latitude: 35.985181 Longitude: - 77.004159 (DD.DDDDDD) (-DD.DDDDDD)
1c.	Property size:	1.02 acres
2.	Surface Waters	
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Roquist Creek
2b.	Water Quality Classification of nearest receiving water:	C Sw
2c.	River basin:	Roanoke
3.	Project Description	
3a.	Describe the existing conditions on the site and the general lar application:	
0:	Currently there is an existing roadway and bridge on site, and	
3b.	List the total estimated acreage of all existing wetlands on the 3.74	property:
3с.	List the total estimated linear feet of all existing streams (interm	ittent and perennial) on the property:
3d.	Explain the purpose of the proposed project:	
	NCDOT Bridge Maintenance Unit records indicate Bridge No. new structure. The bridge is considered functionally obsolete NCDOT proposes to replace Bridge No. 44 with a new bridge.	44 has a sufficiency rating of 40 out of a possible 100 for a due to a deck geometry appraisal of 3 out of 9. Therefore,
3e.	Describe the overall project in detail, including the type of equi The project involves replacing a 103-foot bridge with a 140-foo detour. Standard road building equipment, such as trucks, doz	t, 3-span bridge on the existing alignment with an off-site
4.	Jurisdictional Determinations	
4a.	Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: Action ID 200511634	⊠ Yes □ No □ Unknown
4b.	If the Corps made the jurisdictional determination, what type of determination was made?	☐ Preliminary ⊠ Final
4c.	If yes, who delineated the jurisdictional areas? Name (if known): Layna Thrush, Elizabeth Scherrer, Justin Wright	Agency/Consultant Company: EcoScience Corporation Other:
4d.	If yes, list the dates of the Corps jurisdictional determinations of March 29, 2006	or State determinations and attach documentation.
5.	Project History	
5a.	Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	⊠ Yes □ No □ Unknown
5b.	If yes, explain in detail according to "help file" instructions. Stormwater Permit, April 9, 2009, SW7090402	
6.	Future Project Plans	
6a.	Is this a phased project?	☐ Yes
6b.	If yes, explain.	

C. Proposed Imp	acts Inventory						
1. Impacts Summ	ary						
1a. Which sections	were completed be	elow for your project	(check all that a	apply):	-		
⊠ Wetlands							
☐ Open Waters	i □ F	Pond Construction	,				
2. Wetland Impac	ts				· · · · · · · · · · · · · · · · · · ·		
		on the site, then com	plete this quest	tion for each wetland a	rea impacte	d.	
2a.	2b.	2c.	2d.	2e. Type of jurisdi	ction	2f.	
Wetland impact number – Permanent (P) or Temporary (T)	Type of impact	Type of wetland (if known)	Forested	(Corps - 404 DWQ – non-404	, 10	Area of impact (acres)	
Site 1 ⊠ P □ T	Fill	riparian	⊠ Yes □ No	□ Corps □ DWQ		0.06	
Site 2 ☐ P ☑ T	Fill	riparian	⊠ Yes □ No	□ Corps □ DWQ		0.02	
Site 3 P T			Yes	☐ Corps			
			☐ No☐ Yes	Corps	· · · · · · · · · · · · · · · · · · ·		
Site 4 P T			□ No	DWQ			
Site 5 P T			☐ Yes ☐ No	☐ Corps			
Site 6 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ			
				2g. Total wetla	nd impacts	0.06 Permanent 0.02 Temporary	
2h. Comments: The	above 0.02 acre c	of temporary fill in we	tlands is in the l	hand clearing areas fo	r erosion co	ntrol measures.	
3. Stream Impacts If there are perennia question for all strea	l or intermittent str	ream impacts (includ	ing temporary ir	mpacts) proposed on t	the site, then	complete this	
3a.	3b.	3c.	3d.	3e.	3f.	3g.	
Stream impact	Type of impact	Stream name	Perennial	Type of	Average	Impact length (linear feet)	
Permanent (P) or Temporary (T)			(PER) or intermittent (INT)?	jurisdiction (Corps - 404, 10 DWQ - non-404, other)	stream width (feet)	(inteal feet)	
Site 1 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
Site 2 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
Site 3 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
Site 4 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
Site 5 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
Site 6 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
			3h. T	otal stream and trib	utary impac	ts 0 Perm 0 Temp	
3i. Comments:						_ To Tollip	

4. Open	Water In	npacts								
If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.										
4a. 4b. 4c.				C.		4d.		4e.		
Open w impact nu		Name of waterbody		Type	of impact		Waterbod	, tupo	Area of im	pact (acres)
Permanen		(if applicable)		Type	oi iiipaci		waterbou	y type	Alea Ol IIII	paci (acres)
Tempora		· · · · · · · · · · · · · · · · · · ·		-4-44						
01 🗌 F	<u> </u>				· · · · · · · · · · · · · · · · · · ·					
O2 🗌 F	т 🗆 т							i		
O3 □ F	т □ т									
04 🗌 F	• 🗆 т									
	4f. Total open water impacts 0 Permanent 0 Temporary									
4g. Comm	ents:			•						
5. Pond	or Lake	Construction								
		struction proposed,	then com	plete	the chart b	elow.				
5a.	5b.		5c.	411			5d.			5e.
Pond ID	Pro	posed use or	we	Wetland Impacts (acres)		Stream Impac		its (reet)	Upland (acres)	
number	pur	pose of pond	Flood	ed	Filled	Excavat ed	Flooded	Filled	Excavated	Flooded
P1										
P2										
		5f. Total			,					
5g. Comm	ents:					-				
5h. Is a dam high hazard permit required?										
5i. Expected pond surface area (acres):										
5j. Size o	of pond w	atershed (acres):								
5k. Metho	5k. Method of construction:									

6. Buffer Impacts (for DWQ)								
If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you MUST fill out Section D of this form.								
6a. Project is in which	protected basin?	☐ Neuse ☐ Catawba	☐ Tar-Pamlico ☐ Randleman	Other:				
6b.	6c.	6d.	6e.	6f.	6g.			
Buffer impact number – Permanent (P) or Temporary (T)	Reason for impact	Stream name	Buffer mitigation required?	Zone 1 impact (square feet)	Zone 2 impact (square feet)			
B1 □ P □ T			☐ Yes ☐ No					
B2 P T			☐ Yes ☐ No					
В3 🗌 Р 🗌 Т			☐ Yes ☐ No					
	6h. Total buffer impacts 0 0							
6i. Comments:								

D.	Impact Justification and Mitigation				
1.	Avoidance and Minimization				
1a.	Specifically describe measures taken to avoid or minimize the	ne proposed impacts i	n designing project.		
	The proposed bridge is 37 feet longer than the existing bridge; the proposed bridge will be at approximately the same grade as the existing structure; an off site detour will be used, 3:1 fill slopes where practicable. There will be an in-water work moratorium from February 15 to June 15 (updated via email with NCWRC on 5/11/09, see attached copy of email) to minimize impacts to anadromous fish.				
1b.	Specifically describe measures taken to avoid or minimize t	he proposed impacts t	hrough construction techniques.		
	Top down construction will be implemented, and there will be no workpads or causeways. Roanoke Electric Co-op, Embarq Telephone, Bertie County Water, and Media-Com (CATV) will be directional bored beneath Jurisdictional areas greater than 3 feet. NCDOT is not proposing mitigation due to the low impact amount and the quality of wetlands being impacted. The wetlands that will be impacted by this project are approximately 15 feet from the existing fill slope. NCDOT fills this area of impact is lower in quality.				
2.	Compensatory Mitigation for Impacts to Waters of the U	J.S. or Waters of the	State		
2a.	Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	☐ Yes No			
2b.	If yes, mitigation is required by (check all that apply):	□ DWQ □ Co	rps		
2c.	If yes, which mitigation option will be used for this project?	☐ Mitigation bank ☐ Payment to in-lie ☐ Permittee Respo			
3.	Complete if Using a Mitigation Bank		·		
3a.	Name of Mitigation Bank: not applicable				
3b.	Credits Purchased (attach receipt and letter)	Туре	Quantity		
3c.	Comments:				
4.	Complete if Making a Payment to In-lieu Fee Program				
4a.	Approval letter from in-lieu fee program is attached.	Yes			
4b.	Stream mitigation requested:	linear feet			
4c.	If using stream mitigation, stream temperature:	☐ warm ☐ co	ool		
4d.	Buffer mitigation requested (DWQ only):	square feet			
4e.	Riparian wetland mitigation requested:	acres			
4f.	Non-riparian wetland mitigation requested:	acres			
4 g.	Coastal (tidal) wetland mitigation requested:	acres			
4 h.	Comments:				
5.	Complete if Using a Permittee Responsible Mitigation F	Plan			
5a.	If using a permittee responsible mitigation plan, provide a d	lescription of the propo	osed mitigation plan.		

6. Buffer I	. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ							
	i. Will the project result in an impact within a protected riparian buffer that requires ☐ Yes ☐ No buffer mitigation?							
6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.								
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)				
Zone 1			3 (2 for Catawba)					
Zone 2			1.5					
		6f. Total buffer	mitigation required:					
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).								
6h. Commei	6h. Comments:							

E.	Stormwater Management and Diffuse Flow Plan (required by DWQ)		
1.	Diffuse Flow Plan		
1a.	Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	Yes	⊠ No
1b.	If yes, then is a diffuse flow plan included? If no, explain why. Comments:	Yes	□No
2.	Stormwater Management Plan		
2a.	What is the overall percent imperviousness of this project?	N/A %	
2b.	Does this project require a Stormwater Management Plan?	⊠Yes	□No
2c.	If this project DOES NOT require a Stormwater Management Plan, explain why:		•
2d.	If this project DOES require a Stormwater Management Plan, then provide a brief, nat See permit drawings	rrative descriptio	n of the plan:
2e.	Who will be responsible for the review of the Stormwater Management Plan?	_	cal Government water Program Init
3.	Certified Local Government Stormwater Review		
3a.	In which local government's jurisdiction is this project?	not applicable	
3b.	Which of the following locally-implemented stormwater management programs apply (check all that apply):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Supp ☐ Other:	lly Watershed
3c.	Has the approved Stormwater Management Plan with proof of approval been attached?	Yes	□No
4.	DWQ Stormwater Program Review		
4a.	Which of the following state-implemented stormwater management programs apply (check all that apply):	Coastal co HQW ORW Session La Other:	unties aw 2006-246
4b.	Has the approved Stormwater Management Plan with proof of approval been attached?	⊠ Yes	□No
5.	DWQ 401 Unit Stormwater Review		
5a.	Does the Stormwater Management Plan meet the appropriate requirements?	⊠ Yes	□ No
5b.	Have all of the 401 Unit submittal requirements been met?	⊠ Yes	□No

F. :	F. Supplementary Information				
1.	Environmental Documentation (DWQ Requirement)				
1a.	Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	⊠ Yes	□No		
1b.	If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	⊠ Yes	□No		
1c.	If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.)	⊠ Yes	□No		
	Comments:				
2.	Violations (DWQ Requirement)				
2a.	Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	Yes	⊠ No		
2b.	Is this an after-the-fact permit application?	Yes	⊠ No		
2c.	If you answered "yes" to one or both of the above questions, provide an explanation of	of the violation(s):			
3.	Cumulative Impacts (DWQ Requirement)				
За.	Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	☐ Yes	⊠ No		
3b.	If you answered "yes" to the above, submit a qualitative or quantitative cumulative im most recent DWQ policy. If you answered "no," provide a short narrative description.	pact analysis in a	ccordance with the		
4.	Sewage Disposal (DWQ Requirement)				
4a.	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge proposed project, or available capacity of the subject facility. not applicable	arge) of wastewa	ter generated from		

5.	Endangered Species and Designate	d Critical Habitat (Corps Requirement)			
5a.	Will this project occur in or near an are habitat?	ea with federally protected species or	☐ Yes	⊠ No		
5b.	Have you checked with the USFWS compacts?	oncerning Endangered Species Act	⊠ Yes [□No		
5c.	Sc. If yes, indicate the USFWS Field Office you have contacted.					
5d.	What data sources did you use to dete Habitat?	ermine whether your site would impact E	ndangered Species or De	esignated Critical		
	NHP, Field Surveys, and USFWS					
6.	Essential Fish Habitat (Corps Requi	irement)				
6a.	Will this project occur in or near an are	a designated as essential fish habitat?	☐ Yes I	⊠ No		
6b.	What data sources did you use to dete	ermine whether your site would impact E	ssential Fish Habitat?			
	NMFS County Index					
7.	Historic or Prehistoric Cultural Res	ources (Corps Requirement)				
7a.	7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? ☐ Yes ☐ Yes ☐ No					
7 b.	What data sources did you use to dete	ermine whether your site would impact hi	storic or archeological re	esources?		
8. I	Flood Zone Designation (Corps Requ	irement)				
8a.	Will this project occur in a FEMA-desig	nated 100-year floodplain?	⊠ Yes [□No		
8b.	8b. If yes, explain how project meets FEMA requirements: Hydraulics coordination with FEMA					
8c.	8c. What source(s) did you use to make the floodplain determination? FEMA Maps					
	Dr. Gregory J. Thorpe, Ph D Applicant/Agent's Printed Name	Applicant/Agent's Sig (Agent's signature is valid only if an authoriza is provided.)	gnature tion letter from the applicant	5-19-09 Date		

APPLICATION for Major Development Permit

1. Primary Applicant/ Landowner Information



(last revised 12/27/06)

North Carolina DIVISION OF COASTAL MANAGEMENT

Business Name			Project Name (if applicable)						
North Carolina Department Of Transportation				B-4435					
Applicant 1: First Name				Last Name					
Gregory		J.		Thorpe					
Applicant 2: First Name		МІ		Last Name					
If additional applicants, please att	ach an additional pag	e(s) v	with names li	listed.					
Mailing Address				PO Box	PO Box City State				
1598 Mail Service Center				Raleigh NC		NC			
ZIP Cour	ntry		Phone No.	· · · · · · · · · · · · · · · · · · ·		₋ -	FAX No.		
27699 1598 USA	4		919 - 431 -	6746 ext.			919 - 43	1 - 200	2
Street Address (if different from a	bove)	1		City	State			ZIP	
4701 Atlantic Avenue Suite 11	16			Raleigh	NC			27604	 -
Email cdmanley@ncdot.gov			, , , , , , , , , , , , , , , , , , , ,						
2. Agent/Contractor In	nformation								
Business Name				4					
Agent/ Contractor 1: First Name		MI		Last Name	_				
Agent/ Contractor 2: First Name		MI		Last Name					
Mailing Address				PO Box	City				State
Mailing Address				TO BOX	City				Otate
ZIP		Pho	ne No. 1	<u> </u>	i	Phone N	No. 2		
			-	- ext.					ext.
FAX No.		Con	tractor #						
				Ta: :			1-1-		
Street Address (if different from above)			City	State			ZIP	-	
Email					<u>, </u>		1-11-1-1	•	

<Form continues on back>

3. Project Location					
County (can be multiple)	County (can be multiple) Street Address				State Rd. #
Bertie	Bridge No.44 over Roquist Creek			SR 1100	
Subdivision Name		City		State	Zip
N/A		Windsor		NC	-
Phone No.		•	Lot No.(s) (if many, attach	additional	page with list)
ext.			, , ,	,	
a. In which NC river basin is the proje Roanoke	ect located?		b. Name of body of water Roquist Creek	nearest to	proposed project
c. Is the water body identified in (b) a		ade?	d. Name the closest majo Albemarle Sound	r water bod	y to the proposed project site.
e. Is proposed work within city limits o ☐Yes ☑No	or planning jurisdiction?	,	f. If applicable, list the pla work falls within.	nning jurisd	iction or city limit the proposed

4. Site Description					
a. Total length of shoreline on the tra	ct (ft.)		b. Size of entire tract (sq.	ft.)	•
110			44,550		
c. Size of individual lot(s)			d. Approximate elevation NWL (normal water lev		ve NHW (normal high water) or
(If many lot sizes, please attach ac	lditional page with a list	')	·	w or □NW	/L
e. Vegetation on tract					
Acer rubrum, Liquidambar styl	raciflua, Taxodium di	stichum, S	Smilax rotundifolia, and T	oxidendro	n radicans
f. Many words factures and uses now on treet					
f. Man-made features and uses now on tract					
Bridge and Roadway Approaches					
g. Identify and describe the existing l	and uses <u>adiacent</u> to th	e proposed	d project site.		
Agricultural and Residential					
	the treat?		in the proposed project and		the applicable carriers
h. How does local government zone Residential	uie uaci?	· '	 Is the proposed project cor (Attach zoning compliance 		• •
Nesidential		-	⊠Yes □No □NA		
j. Is the proposed activity part of an u	rban waterfront redevel	lopment pro	oposal?	□Yes	⊠No
k. Has a professional archaeological	assessment been done	for the tra	ct? If yes, attach a copy.	□Yes	⊠No □NA
If yes, by whom?					
Is the proposed project located in a National Register listed or eligible	National Registered Hi property?	istoric Distr	rict or does it involve a	□Yes	⊠No □NA

<Form continues on next page>

m. (i) Are there wetlands on the site?	⊠Yes □No
(ii) Are there coastal wetlands on the site?	□Yes ⊠No
(iii) If yes to either (i) or (ii) above, has a delineation been conducted? (Attach documentation, if available)	⊠Yes □No
n. Describe existing wastewater treatment facilities.	
N/A	
Describe existing drinking water supply source.	
N/A	
p. Describe existing storm water management or treatment systems.	
None	
	· · · · · · · · · · · · · · · · · · ·
5. Activities and Impacts	
	Commercial Public/Government
	☐Private/Community
b. Give a brief description of purpose, use, and daily operations of the project when complete.	
Public Road and Bridge	
c. Describe the proposed construction methodology, types of construction equipment to be used of equipment and where it is to be stored.	during construction, the number of each type
This project involves the replacement of Bridge No. 44 (SR 1100) near Windsor. The location, and traffic will be routed on an off site detour. Top down construction will b bridge will be removed without dropping any components into the water. Typical cor	e the construction method. The existing
surface equipment will be used. d. List all development activities you propose.	
Roadway and bridge construction	
Troadway and bridge constitution	
e. Are the proposed activities maintenance of an existing project, new work, or both?	Both
f. What is the approximate total disturbed land area resulting from the proposed project?	36,000 ⊠Sq.Ft or □Acres
g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	⊠Yes □No □NA
h. Describe location and type of existing and proposed discharges to waters of the state.	
See permit drawings	
Will wastewater or stormwater be discharged into a wetland?	⊠Yes □No □NA
If yes, will this discharged water be of the same salinity as the receiving water?	□Yes ⊠No □NA
j. Is there any mitigation proposed?	Yes No NA
If yes, attach a mitigation proposal.	F1.02 Maigo Flav
, 2-0, -10-31, -10-10, -10-1	

<Form continues on back>

6. Additional Information	
In addition to this completed application form, (MP-1) the following items be package to be complete. Items (a) – (f) are always applicable to any major instruction booklet on how to properly prepare the required items below.	
a. A project narrative.	
 An accurate, dated work plat (including plan view and cross-sectional draproposed project. Is any portion already complete? If previously authorize between work completed and proposed. 	awings) drawn to scale. Please give the present status of the zed work, clearly indicate on maps, plats, drawings to distinguish
c. A site or location map that is sufficiently detailed to guide agency person	nel unfamiliar with the area to the site.
d. A copy of the deed (with state application only) or other instrument under	
e. The appropriate application fee. Check or money order made payable to	DENR.
f. A list of the names and complete addresses of the adjacent waterfront (rigowners have received a copy of the application and plats by certified mai which to submit comments on the proposed project to the Division of Coa	il. Such landowners must be advised that they have 30 days in
Name See attached list	Phone No.
Address	·
Name	Phone No.
Address	
Name	Phone No.
Address	
g. A list of previous state or federal permits issued for work on the project to Stormwater Permit, April 9, 2009, SW7090402	ract. Include permit numbers, permittee, and issuing dates.
h. Signed consultant or agent authorization form, if applicable.	
i. Wetland delineation, if necessary.	
j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (
 A statement of compliance with the N.C. Environmental Policy Act (N.C. of public funds or use of public lands, attach a statement documenting or 	G.S. 113A 1-10), if necessary. If the project involves expenditure ompliance with the North Carolina Environmental Policy Act.
7. Certification and Permission to Enter on Land	
I understand that any permit issued in response to this application. The project will be subject to the conditions and restrictions contain	will allow only the development described in the application. led in the permit.
I certify that I am authorized to grant, and do in fact grant permissic enter on the aforementioned lands in connection with evaluating	on to representatives of state and federal review agencies to information related to this permit application and follow-up
I further certify that the information provided in this application is tru	uthful to the best of my knowledge.
Date <u>5-19-09</u> Print Name <u>6</u>	you J. Thenpe (M)
Signature	athful to the best of my knowledge. Thempe, PhN
Please indicate application attachments pertaining to your proposed DCM MP-2 Excavation and Fill Information DCM MP-3 Upland Development DCM MP-4 Structures Information	d project. DCM MP-5 Bridges and Culverts

Form DCM MP-5

BRIDGES and CULVERTS

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

1.	BRIDGES		☐ This section not applicable
a.	Is the proposed bridge: ☐Commercial ☑Public/Government ☐Private/Community	b.	Water body to be crossed by bridge: Roquist Creek
c.	Type of bridge (construction material): 21" Cored Slab	d.	Water depth at the proposed crossing at NLW or NWL:
e.	(i) Will proposed bridge replace an existing bridge? Yes □No If yes, (ii) Length of existing bridge: 103' (iii) Width of existing bridge: 21' (iv) Navigation clearance underneath existing bridge: 7' (v) Will all, or a part of, the existing bridge be removed? (Explain) Yes, All of the existing bridge will be removed	f.	 (i) Will proposed bridge replace an existing culvert? □Yes ☑No If yes, (ii) Length of existing culvert: □ (iii) Width of existing culvert: □ (iv) Height of the top of the existing culvert above the NHW or NWL: □ (v) Will all, or a part of, the existing culvert be removed? (Explain)
g.	Length of proposed bridge: 140 (ft)	h.	Width of proposed bridge: 28'
i.	Will the proposed bridge affect existing water flow? ✓ Yes □ No If yes, explain: The new bridge and roadway grade will cause a slighty decrease in the 100 year water surface elevation	j.	Will the proposed bridge affect navigation by reducing or increasing the existing navigable opening? ☐ No If yes, explain: Increase opening
k.	Navigation clearance underneath proposed bridge: 5'	1.	Have you contacted the U.S. Coast Guard concerning their approval? ☐Yes ☒No If yes, explain:
m.	Will the proposed bridge cross wetlands containing no navigable waters?	n.	Height of proposed bridge above wetlands: 5'
2.	CULVERTS		☑This section not applicable
a.	Number of culverts proposed: N/A	b.	Water body in which the culvert is to be placed:
			·

< Form continues on back>

c.	Type of culvert (construction material): N/A				
d.	(i) Will proposed culvert replace an existing bridge? Yes	e.	(i) Will proposed culvert replace an existing culvert? Yes No		
f.	Length of proposed culvert:	g.	Width of proposed culvert:		
h.	Height of the top of the proposed culvert above the NHW or NWL.	i.	Depth of culvert to be buried below existing bottom contour.		
j.	Will the proposed culvert affect navigation by reducing or increasing the existing navigable opening? ☐ Yes ☐ No If yes, explain:	k.	Will the proposed culvert affect existing water flow? ☐Yes ☐No If yes, explain: ☐ This section not applicable		
a.	(i) Will the placement of the proposed bridge or culvert require any excavation below the NHW or NWL? ☐Yes ☐No If yes, (ii) Avg. length of area to be excavated: (iii) Avg. width of area to be excavated: (iv) Avg. depth of area to be excavated: (v) Amount of material to be excavated in cubic yards:	b.	(i) Will the placement of the proposed bridge or culvert require any excavation within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected. CW		
c.	 (i) Will the placement of the proposed bridge or culvert require any high-ground excavation?				

d.	If the placement of the bridge or culvert involves any excavation, plea (i) Location of the spoil disposal area: Approved NCDOT site	ase con	nplete the following:
	 (ii) Dimensions of the spoil disposal area: To be determined by co (iii) Do you claim title to the disposal area? ☐ Yes ☐ No (If no, at (iv) Will the disposal area be available for future maintenance? ☐ Ye (v) Does the disposal area include any coastal wetlands/marsh (CW) bottom (SB)? ☐ CW ☐ SAV ☐ WL ☐ SB ☒ None If any boxes are checked, give dimensions if different from (ii) ab 	tach a es □t , subm	letter granting permission from the owner.) No
	(vi) Does the disposal area include any area below the NHW or NWL If yes, give dimensions if different from (ii) above.	.? ? []Yes ⊠No
e.	 (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL?	f.	(i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected. CW
g.	(i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed on high-ground?		
4.	GENERAL TOTAL AND		
a.	Will the proposed project require the relocation of any existing utility lines?	b.	Will the proposed project require the construction of any temporary detour structures? ☐Yes ☑No If yes, explain:
	If this portion of the proposed project has already received approval from local authorities, please attach a copy of the approval or certification.		

< Form continues on back>

Form DCM MP-5 (Bridges and Culverts, Page 3 of 4)

Form DCM MP-5 (Bridges and Culverts, Page 4 of 4)

C.	Will the proposed project require any work channels? ☐Yes ☐No If yes, complete Form DCM-MP-2.	d.	How will excavated or fill material be kept on site and erosion controlled? Use of Standard NCDOT BMP's
e.	What type of construction equipment will be used (for example, dragline, backhoe, or hydraulic dredge)? Typical construction, earth moving, and road surface equipment will be used.	f.	Will wetlands be crossed in transporting equipment to project site? ☐Yes ☐No If yes, explain steps that will be taken to avoid or minimize environmental impacts.
g.	Will the placement of the proposed bridge or culvert require any shoreline stabilization? ☐ Yes ☑ No If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.	-	
 Da	5-1909 te 8-4435		



BEVERLY EAVES PERDUE GOVERNOR

EUGENE A. CONTI. JR. **SECRETARY**

May 18, 2009

Elisha Edward Coburn, Heirs 104 Coburn Road Windsor, NC 27893

Dear Landowner:

The North Carolina Department of Transportation is planning to replace bridge number 44 on SR 1100 over Roquist Creek. The proposed project will replace the aging existing structure over Roquist Creek. The project will replace the existing 103-foot long bridge with a 140-foot long bridge. The additional length will allow for the replacement of a substandard structure as well as improve the existing floodplain. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A vicinity map and site drawings are enclosed for your review.

The attached form is submitted to ensure that you have an opportunity to comment on the proposal. The work planned is depicted in the attached drawing. If you have **no** objections to the proposal, please return the form with your response within 30 days to this office. If you do have objections to the project, please forward your comments to:

> Mr. Jim Hoadley N.C. Division of Coastal Management 1367 U.S. Highway 17 Elizabeth City, NC 27909

Thank you for your cooperation.

Gregory J. Thorpe, Ph.D.,

Environmental Management Director, PDEA

Enclosures

Jim Hoadley, NCDCM cc:

Ms. Christie Wright, P.E., PDEA Project Planning Engineer

File B-4435

ADJACENT RIPARIAN LANDOWNER STATEMENT

(Bertie County: Replace Bridge No. 44 over Roquist Creek) TIP Project No. B-4435

General Statutes and Division of Coastal Management Major Development Permit approval procedures require that riparian landowners with property adjoining a proposed development in an Area of Environmental Concern (AEC) be given thirty (30) days in which to comment on the proposed development. This form allows the adjacent riparian landowner to express either: (1) that he objects to the project; or, (2) that he does not object and desires to waive his/her right to the 30-day period so that the processing of the application can progress more rapidly. Of course, the adjacent riparian landowner need not sign this form at all if he/she so chooses.

ı,, am an adjac	cent riparian property owner and
am aware of the North Carolina Department replacing bridge number over water body	nt of Transportation's plans for y in County, North Carolina.
I am further aware that this work will of	
Environmental Concern and therefore will a	•
Division of Coastal Management in accor Management Act (CAMA).	dance with the Coastal Area
I have no objection to the project hereby waive that right of objection	
Statute 113-229	on as provided in deneral
I have objections to the project as comments are attached	presently proposed and my
Signature of Adjacent Riparian Landowner	Date
Phone Number with Area Code	



BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

May 18, 2009

Lena Hoggard Evans 342 Exter Road Colerain, NC 27924-8904

Dear Landowner:

The North Carolina Department of Transportation is planning to replace bridge number 44 on SR 1100 over Roquist Creek. The proposed project will replace the aging existing structure over Roquist Creek. The project will replace the existing 103-foot long bridge with a 140-foot long bridge. The additional length will allow for the replacement of a substandard structure as well as improve the existing floodplain. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A vicinity map and site drawings are enclosed for your review.

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Mr. Jim Hoadley N.C. Division of Coastal Management 1367 U. S. Highway 17 Elizabeth City, NC 27909

Thank you for your cooperation.

Sincerely;

Gregory J. Thorpe, Ph.D.,

Environmental Management Director, PDEA

Enclosures

cc: Jim Hoadley, NCDCM

Ms. Christie Wright, P.E., PDEA Project Planning Engineer

File B-4435

WEBSITE: WWW.NCDOT.ORG

ADJACENT RIPARIAN LANDOWNER STATEMENT

(Bertie County: Replace Bridge No. 44 over Roquist Creek) TIP Project No. B-4435

General Statutes and Division of Coastal Management Major Development Permit approval procedures require that riparian landowners with property adjoining a proposed development in an Area of Environmental Concern (AEC) be given thirty (30) days in which to comment on the proposed development. This form allows the adjacent riparian landowner to express either: (1) that he objects to the project; or, (2) that he does not object and desires to waive his/her right to the 30-day period so that the processing of the application can progress more rapidly. Of course, the adjacent riparian landowner need not sign this form at all if he/she so chooses.

I,, am an a am aware of the North Carolina Departr replacing bridge number over water k I am further aware that this work will Environmental Concern and therefore w Division of Coastal Management in ac Management Act (CAMA).	oody in County, North Carolina. occur in one or more Areas of will require authorization from the
I have no objection to the projection to the pro	
I have objections to the project comments are attached	t as presently proposed and my
Signature of Adjacent Riparian Landowner	Date
Phone Number with Area Code	



BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

May 18, 2009

Charles Hill 1990 Lexington Avenue, APT 23C New York, NY 10035

Dear Landowner:

The North Carolina Department of Transportation is planning to replace bridge number 44 on SR 1100 over Roquist Creek. The proposed project will replace the aging existing structure over Roquist Creek. The project will replace the existing 103-foot long bridge with a 140-foot long bridge. The additional length will allow for the replacement of a substandard structure as well as improve the existing floodplain. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A vicinity map and site drawings are enclosed for your review.

The attached form is submitted to ensure that you have an opportunity to comment on the proposal. The work planned is depicted in the attached drawing. If you have <u>no</u> objections to the proposal, please return the form with your response within 30 days to this office. If you <u>do</u> have objections to the project, please forward your comments to:

Mr. Jim Hoadley N.C. Division of Coastal Management 1367 U. S. Highway 17 Elizabeth City, NC 27909

Thank you for your cooperation.

Sincerely

Gregory J. Thorpe, Ph.D.,

Environmental Management Director, PDEA

Enclosures

cc: Jim Hoadley, NCDCM

Ms. Christie Wright, P.E., PDEA Project Planning Engineer

File B-4435

WEBSITE: WWW.NCDOT.ORG

ADJACENT RIPARIAN LANDOWNER STATEMENT

(Bertie County: Replace Bridge No. 44 over Roquist Creek) TIP Project No. B-4435

General Statutes and Division of Coastal Management Major Development Permit approval procedures require that riparian landowners with property adjoining a proposed development in an Area of Environmental Concern (AEC) be given thirty (30) days in which to comment on the proposed development. This form allows the adjacent riparian landowner to express either: (1) that he objects to the project; or, (2) that he does not object and desires to waive his/her right to the 30-day period so that the processing of the application can progress more rapidly. Of course, the adjacent riparian landowner need not sign this form at all if he/she so chooses.

, am an adjacent riparian property owner and am aware of the North Carolina Department of Transportation's plans for replacing bridge number over water body in County, North Carolina. I am further aware that this work will occur in one or more Areas of Environmental Concern and therefore will require authorization from the Division of Coastal Management in accordance with the Coastal Area Management Act (CAMA).
I have no objection to the project as presently proposed and hereby waive that right of objection as provided in General Statute 113-229
I have objections to the project as presently proposed and my comments are attached
Signature of Adjacent Riparian Landowner Date
Phone Number with Area Code



BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

May 18, 2009

Horace G. Ward Jr. 7316 Helmsdale Road Bethesda, MD 20817-4626

Dear Landowner:

The North Carolina Department of Transportation is planning to replace bridge number 44 on SR 1100 over Roquist Creek. The proposed project will replace the aging existing structure over Roquist Creek. The project will replace the existing 103-foot long bridge with a 140-foot long bridge. The additional length will allow for the replacement of a substandard structure as well as improve the existing floodplain. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A vicinity map and site drawings are enclosed for your review.

The attached form is submitted to ensure that you have an opportunity to comment on the proposal. The work planned is depicted in the attached drawing. If you have <u>no</u> objections to the proposal, please return the form with your response within 30 days to this office. If you <u>do</u> have objections to the project, please forward your comments to:

Mr. Jim Hoadley N.C. Division of Coastal Management 1367 U. S. Highway 17 Elizabeth City, NC 27909

Thank you for your cooperation.

Sincerely

Gregory J. Thorpe, Ph.D.,

Environmental Management Director, PDEA

Enclosures

cc: Jim Hoadley, NCDCM

Ms. Christie Wright, P.E., PDEA Project Planning Engineer

File B-4435

TELEPHONE: 919-431-2000 FAX: 919-431-2002 LOCATION: 4701 ATLANTIC AVENUE SUITE 116 RALEIGH NC 27604

WEBSITE: WWW.NCDOT.ORG

ADJACENT RIPARIAN LANDOWNER STATEMENT

(Bertie County: Replace Bridge No. 44 over Roquist Creek) TIP Project No. B-4435

General Statutes and Division of Coastal Management Major Development Permit approval procedures require that riparian landowners with property adjoining a proposed development in an Area of Environmental Concern (AEC) be given thirty (30) days in which to comment on the proposed development. This form allows the adjacent riparian landowner to express either: (1) that he objects to the project; or, (2) that he does not object and desires to waive his/her right to the 30-day period so that the processing of the application can progress more rapidly. Of course, the adjacent riparian landowner need not sign this form at all if he/she so chooses.

I, , am an adj	acent riparian	property owne	r and
am aware of the North Carolina Departm	=	•	
replacing bridge number over water bo	•		
I am further aware that this work will			
Environmental Concern and therefore will	· -		
Division of Coastal Management in acco	ordance with	i the Coastai	Area
Management Act (CAMA).			
I have no objection to the projection	ct as presently	proposed and	
hereby waive that right of object		•	
Statute 113-229			
I have objections to the project of	a procently ny	conceed and my	
I have objections to the project a comments are attached	s presently pr	oposed and my	
Comments are attached			
Signature of Adjacent Riparian Landowner	Date		
Phone Number with Area Code			

MWC vet 1/10



North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue
Governor

Division of Water Quality
Coleen H. Sullins

Director

APR 15

Dee Freeman Secretary

April 9, 2009

Mr. D.R. Henderson, PE NCDOT – Hydraulics Unit 1590 Mail Service Center Raleigh, NC 27699-1590

Subject:

Stormwater Permit Exclusion - NC DOT Activity

Replacement of Bridge No.44 over Roquist Creek on SR1100

Stormwater Project No. SW7090402

Bertie County

Dear Mr. Henderson:

On April 6, 2009, the Washington Regional Office of the Division of Water Quality received a Coastal Stormwater Permit Application for project B-4435, the replacement of Bridge No. 44, located over Roquist Creek on SR 1100 in Bertie County. Staff review of the plans and supporting documents has determined that the project proposes activities that are excluded from State Stormwater permitting requirements as set forth in Section 2.(d)(1) of Session Law 2008-211, effective October 1, 2008, and the stormwater rules under Title 15A NCAC 2H .1000, as amended.

Therefore, the Director of the Division of Water Quality is hereby providing confirmation that the subject project is excluded from State Stormwater permitting requirements, being an activity of the NC DOT that is regulated in accordance with the provisions of the NC DOT's National Pollutant Discharge Elimination System (NPDES) Stormwater Permit.

Under Section 15A NCAC 2H .1003, any future development or changes to the proposed development, including but not limited to, the locations of the built-upon area and construction of additional built-upon area, may require approval or a Stormwater Management permit application and permit issuance from the Division of Water Quality prior to any construction. Any construction on the site prior to receipt of the required approval or permit will constitute a violation of Title 15A NCAC 2H.1000 and Session Law 2008-211, and may result in the initiation of appropriate enforcement action.

Please keep in mind that this determination does not affect your legal obligation to obtain other permits and approvals, which may be required by Federal, State, or local government agencies, rule or law. If you have any questions, or need additional information concerning this matter, please contact either Scott Vinson or me at (252) 946-6481.

Sincerely,

Regional Supervisor

Surface Water Protection Section

AH/sv: S:\WQS\STORMWATER\PERMIT\EXCLUSIONS\SW7090402

cc:

Bertie County Building Inspections Division of Coastal Management

Garcy Ward, DWO

Washington Regional Office

Central Files

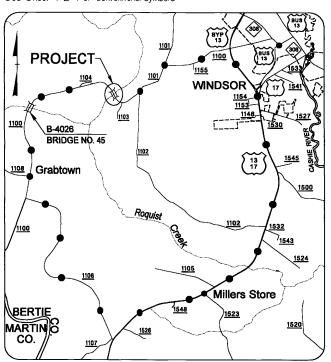
Internet: www.nowaterquality.org
Phone: 252-946-6481 \ FAX: 252-946-9215
FAX: 252-946-9215



A. Frank Carachanita & Afficiation Antina Facebook

443 Ö **PROJEC**

See Sheet 1-A For Index of Sheets See Sheet 1-B For Conventional Symbols



VICINITY MAP

→ • • • DETOUR ROUTE

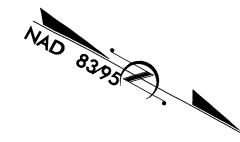
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

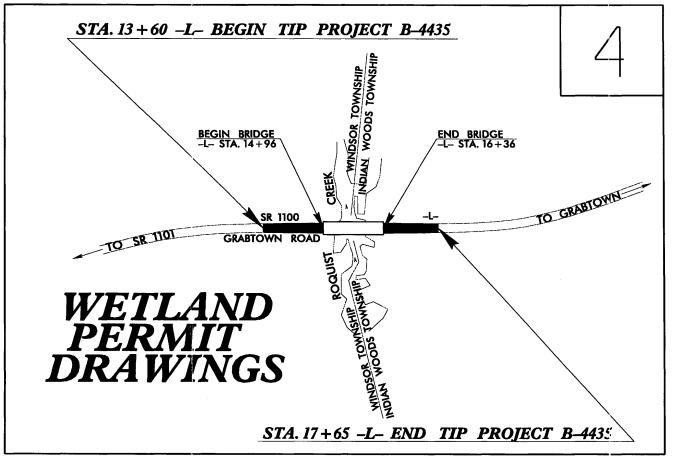
BERTIE COUNTY

LOCATION: BRIDGE NO. 44 OVER ROQUIST CREEK ON SR 1100

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
33701.1.1	BRZ-1100(17)	PE
	1	





Permit Drawing

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

THIS PROJECT WAS DESIGNED USING THE SUB REGIONAL TIER DESIGN GUIDELINES FOR BRIDGE PROJECTS. THIS PROJECT IS WITHIN BOTH THE WINDSOR AND INDIAN WOODS TOWNSHIPS CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD ____.

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50	25	o	50	100	ADT	2010	=	1,20	80	
				4	ADT	2030	=	1,90	00	
		PL	ANS			DHV	=	10	%	
50	25	Q	50	100		D	=	60	%	
	Ш					Т	=	3	%	*
	PROF	TLE (H	IORIZONT	AL)		٧	=	50	M	РН
10	5	Q	10	20	* П	T 1%		DU	AL	2%
	PR	OFILE	WEDTICAL		FUNC.	CLASS	; =	RUR	AL,	СΤ.

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4435 = 0.050 MILES LENGTH STRUCTURE TIP PROJECT B-4435 = 0.027 MILES TOTAL LENGTH TIP PROJECT B-4435 = 0.077 MILES

Prepared in the Office of: **DIVISION OF HIGHWAYS** 1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS RIGHT OF WAY DATE: January 16, 2009

LETTING DATE: January 19, 2010 GARY LOVERING, PE

ROADWAY DESIGN ENGINEER RON McCOLLUM, PE

HYDRAULICS ENGINEER

Property Owners											
Parcel Number	Names	Addresses									
1	Elisha Edward Coburn, Heirs	104 Coburn Road Windsor, NC 27893									
2	Lena Hoggard Evans	342 Exter Road Colerain, NC 27924-8904									
3	Charles Hill	1990 Lexington Avenue, APT 23C New York, NY 10035									
4	Horace G. Ward, Jr.	7316 Helmsdale RD Bethesda, MD 20817-4626									

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

Bertie COUNTY
WBS - 33701.1.1 (B-4435)

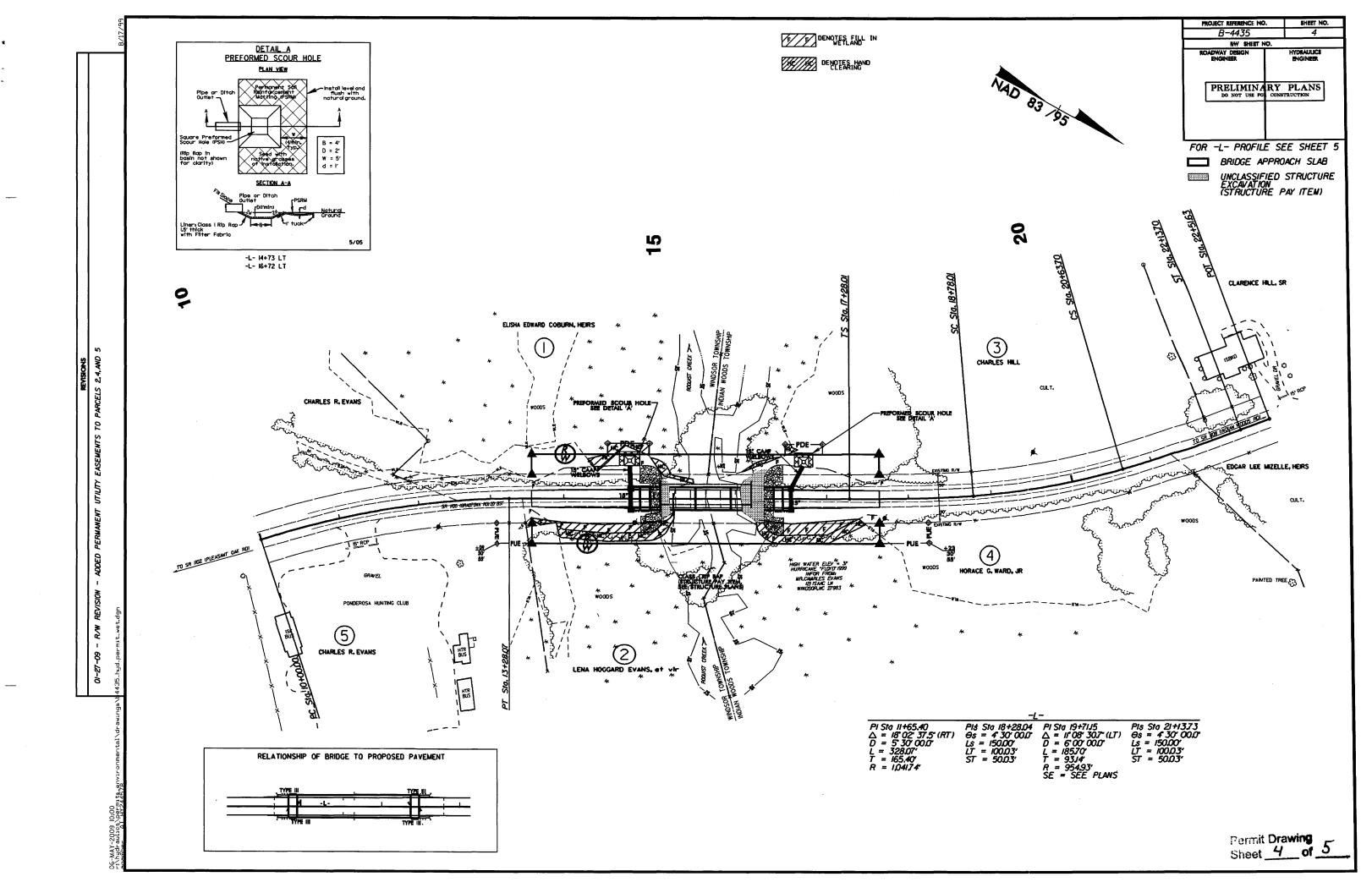
SHEET

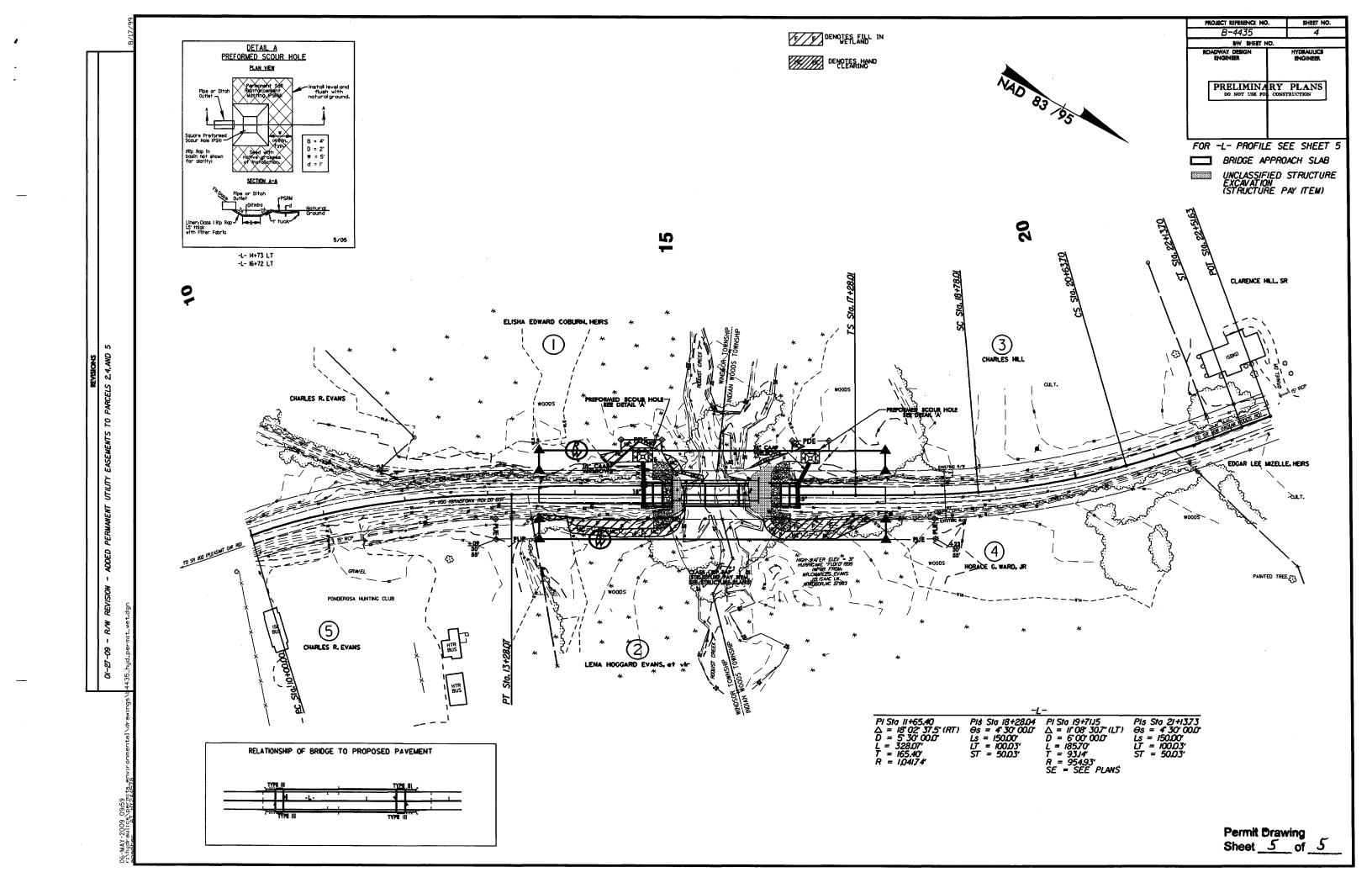
12/18/2008

Permit Drawing Sheet 2 of 5

																	_											
	Natural	Stream Design (ft)																					Party Bake			35]	5006	7007
MPACTS	Existing Channel	Temp. (ft)										-			*	Ne o Jogo						0.00	DEC	OF TRAILED	of highwa∯		,	75.75
CE WATER I	Existing Channel	Permanent (ft)																				00.00	TO TO	EPARTMENT	DIVISION	Bertie WBS - 33701		
		sw impacts (ac)																				0.00	•	NC				1777110
	Permanent	sw impacts (ac)																				0.00		***	į.			
	Hand Clearing	Wetlands (ac)	0.08																ľ			0.08						
STS	Mechanized	in Wetlands (ac)																				0.00		sures				
AND IMPA	Excavation	sp																				0.00		control mea				
WET	Temp.	Wetlands (ac)																				0.00		s for erosion				
	Permanent	Wetlands (ac)	0.06																	4.7		90.0		Clearing area				
	3.70	Size / Type	Roadway Fill & Bridge																					Fill in Wetlands in the Hand				
	Othorica	(From/To)	-L- 13+58 to 17+48																					0.02 acres of Temporary I				15
	ğ	No.	-																			TOTALS		0				ATN Revised 3/31/05
		WETLAND IMPACTS SURFACE WATER IMPACTS Existing Existing Existing Channel Charing Channel Chann	Permanent Temp. Excavation Mechanized Clearing Fill In Fill In Wetlands Wetlands Wetlands Wetlands (ac) (ac) (ac) (ac) (ac) (ac) (ac) (ac)	Station Structure Fill In Fill Notlands Size / Type Wetlands Cac) (ac) (ac)	Station Structure Fill In Fill In Clearing From/To) Size / Type Wetlands (ac) (a	Station Structure Fill In Fill In (ac) -1.13+58 to 17+48 Roadway Fill & Bridge 1.006 R	Station Structure Fill In Fill In Clearing In SW SW Impacts Impact	Station Structure Fill In Fill In Fill In Clearing Permanent Temp. Excavation Mechanized Clearing Permanent Temp. Channel Chan	Station Structure Fill In Fill In Fill In (ac) (ac) (ac) (ac) (ac) (ac) (ac) (ac)	Station Structure Fill In Fi	Station Structure Fill In Fill In	Structure Structure Fill In Fill In	Station Structure	Station Structure Fill in Fill in Fill in Fill in Fill in Roadway Fill & Bridge D.06 Clearing Clearing Fill in Fill in	Station Structure	Station Structure Fill In Clearing In Structure Fill In Fill In In Clearing In Structure Fill In In Clearing In Structure Fill In Fill In In Clearing In Structure Fill In In Clearing Fill In Clearing Existing Exi	Structure Structure Fill In Fill In	Station Structure Fill In Fill Netlands Wetlands Wetlands whetlands whetlands whetlands whetlands whetlands whetlands in the constant of the c	Stucture Fill in Fill in Excavation Mechanized Clearing Permanent Temp. Existing Existing	Structure Fill in Fill in Clearing Fill in Fill in Clearing Fill in Fill in Clearing Fill in Fill in Clearing Fill in Fill	Station Structure Fill in Fill in Clearing From Fill in Fill in Fill in Clearing From Fill in Fill in Clearing From Fill in Fill in Clearing From Fill in Fill in Fill in Clearing From Fill in Fill i	Station Structure Fill in Fill in Hill i	Station Structure Fill in Fill i	Station Structure Permanent Temp. Excavation Mechanized Clearing Permanent Temp. Clearing Clearing Permanent Temp. Clearing Clearing	Station Structure Frain Frain	Station Structure Fill in Wetlands Parmenent Tamp Exercation Mechanics Hand Parmenent Tamp Exercation Mechanics Parmenent Tamp Parmenent Parmenent	Station Structure Fating Fating	Station Studure Fill in Wellands Wel

Permit Drawing 5 Sheet 3 of 5





PROJECT 3-4026 BRIDGE NO. 45 Grabtown MARTIN O

VICINITY MAP

DETOUR ROUTE

See Sheet 1-A For Index of Sheets

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PROJE

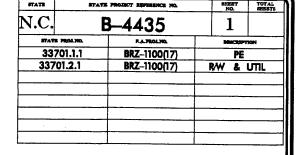
See Sheet 1-B For Conventional Symbols

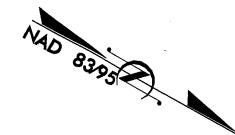
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

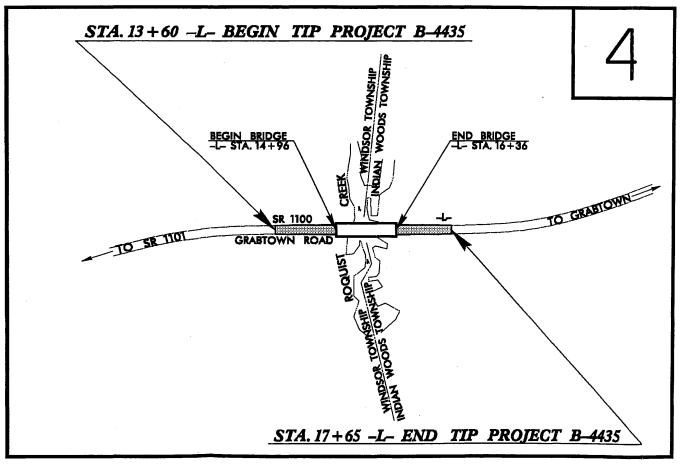
BERTIE COUNTY

LOCATION: BRIDGE NO. 44 OVER ROQUIST CREEK ON SR 1100

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE







Utility Permit Drawing Sheet

PROFILM IN A RIVED BY ARE

THIS PROJECT WAS DESIGNED USING THE SUB REGIONAL TIER DESIGN GUIDELINES FOR BRIDGE PROJECTS. THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

GRAPHIC SCALES PLANS 50 25 PROFILE (HORIZONTAL)

PROFILE (VERTICAL)

DESIGN DATA ADT 2010 = 1,208ADT 2030 = 1,900DHV = 10 %D = 60 %T = 3 % * V = 50 MPHDUAL 2% * TTST 1% FUNC. CLASS = RURAL COLLECTOR

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4435 0.050 MILES LENGTH STRUCTURE TIP PROJECT B-4435 = 0.027 MILES

= 0.077 MILES TOTAL LENGTH TIP PROJECT B-4435

Prepared in the Office of: **DIVISION OF HIGHWAYS** 1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS RIGHT OF WAY DATE:

January 7, 2009 LETTING DATE:

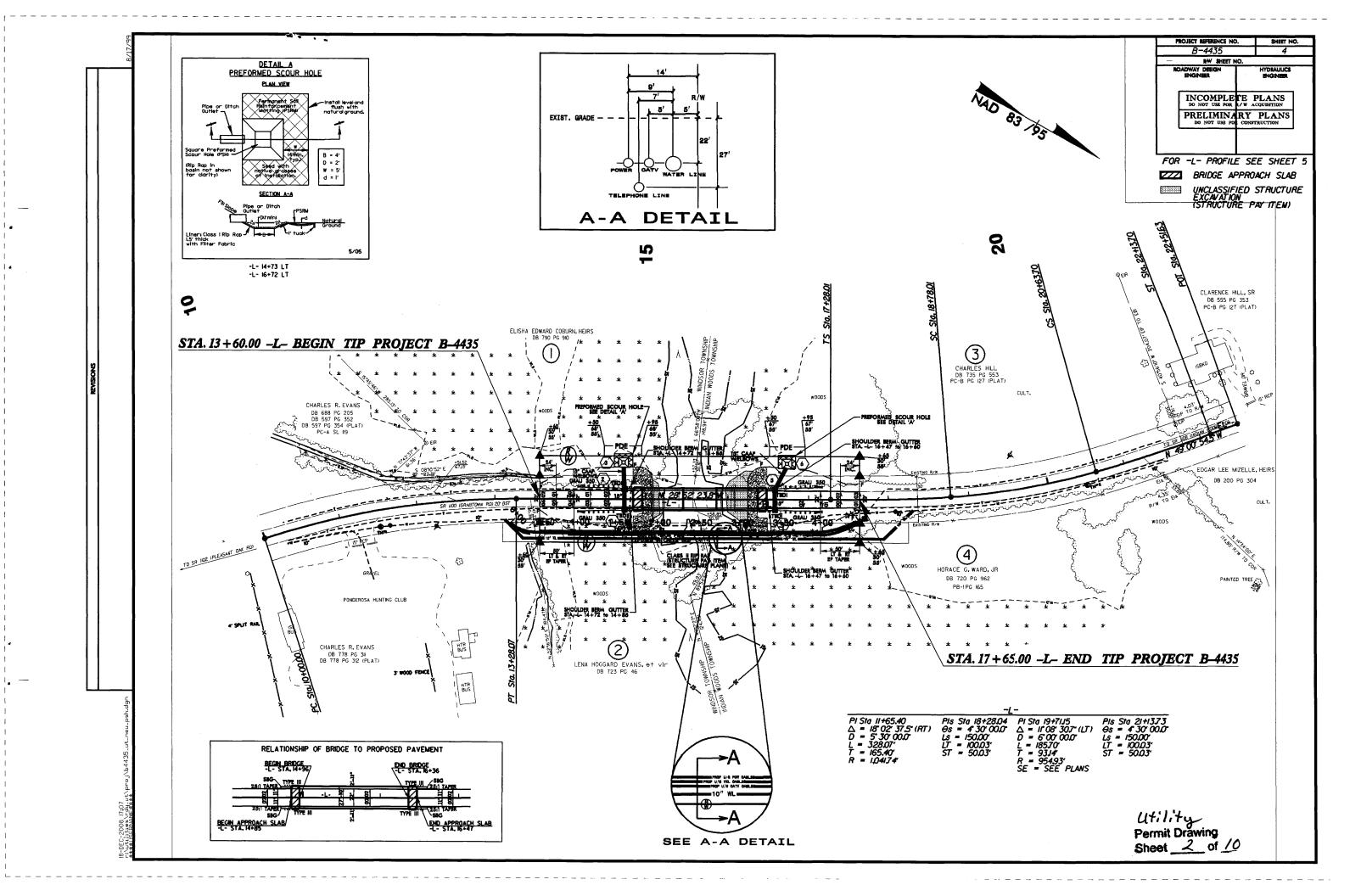
RON McCOLLUM, PE January 19, 2010

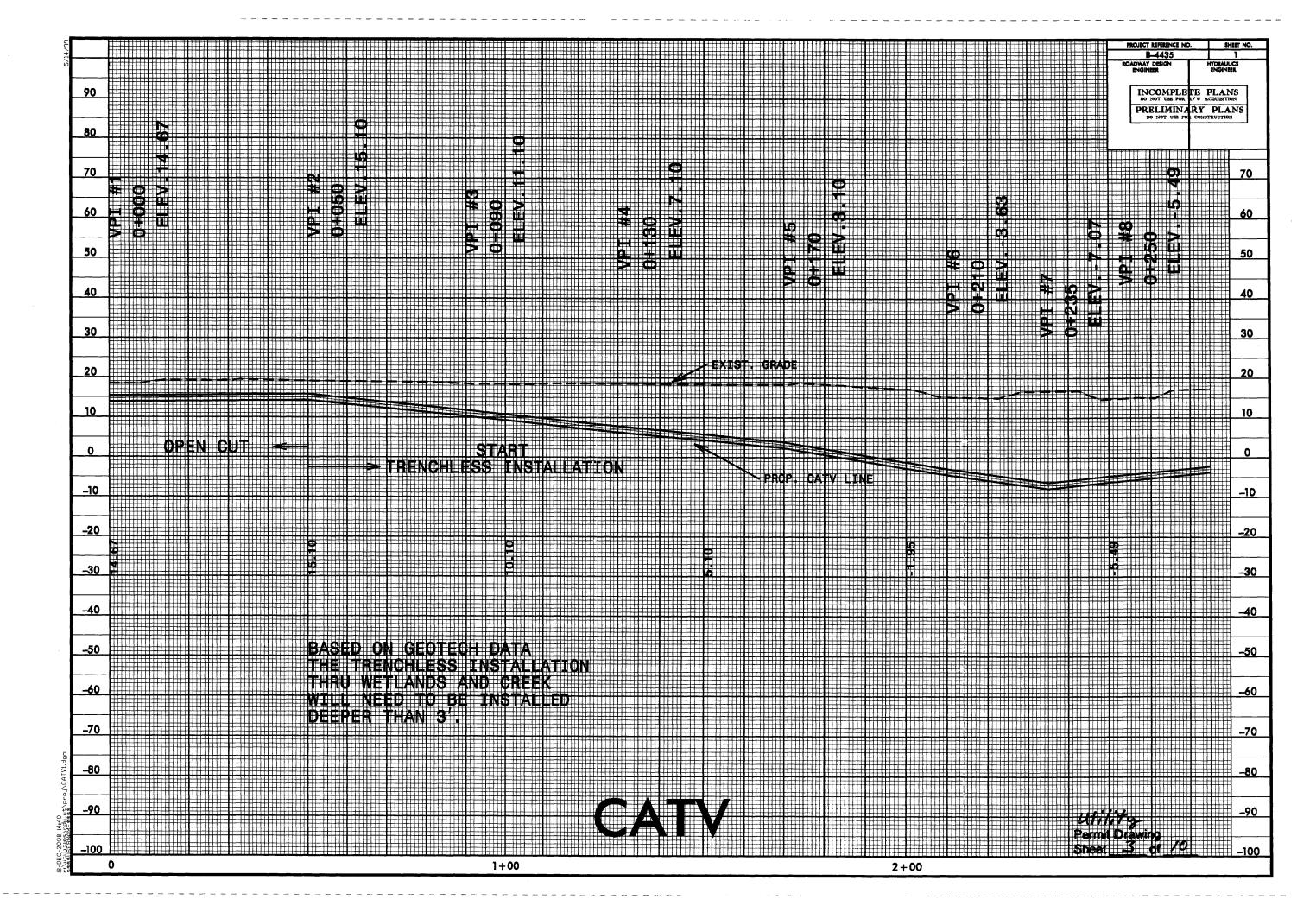
GARY LOYERING, PE

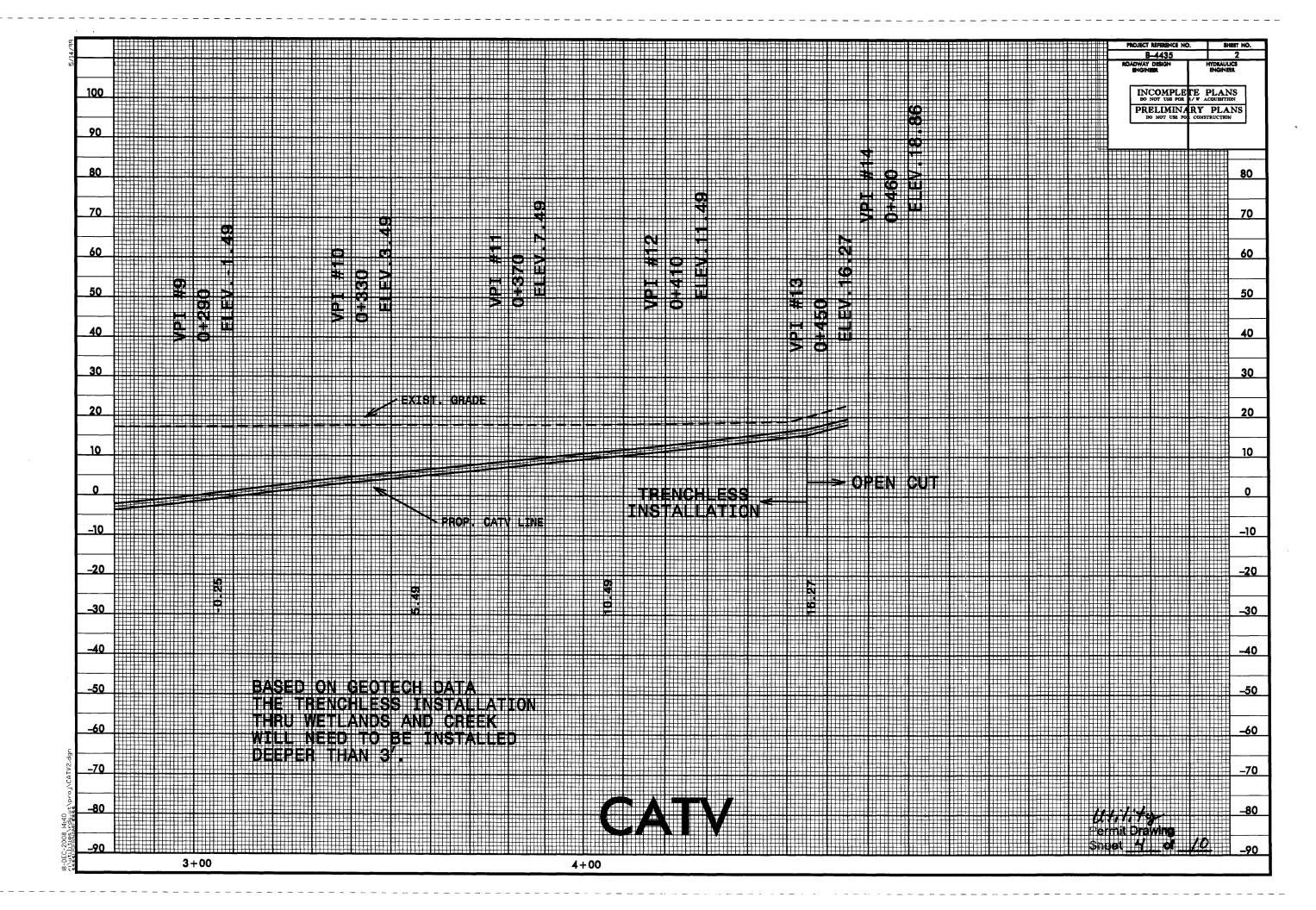
HYDRAULICS ENGINEER

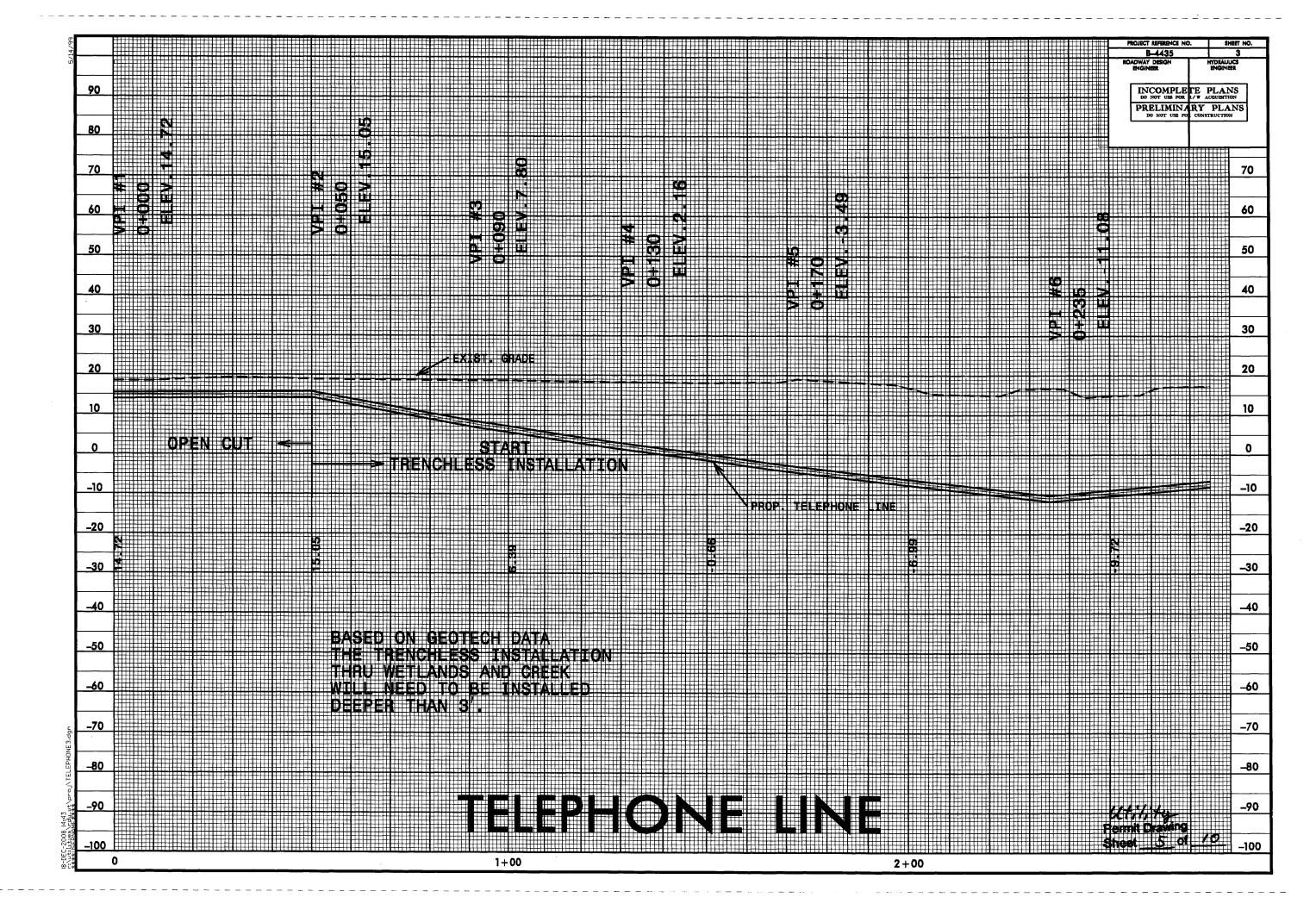
ROADWAY DESIGN ENGINEER

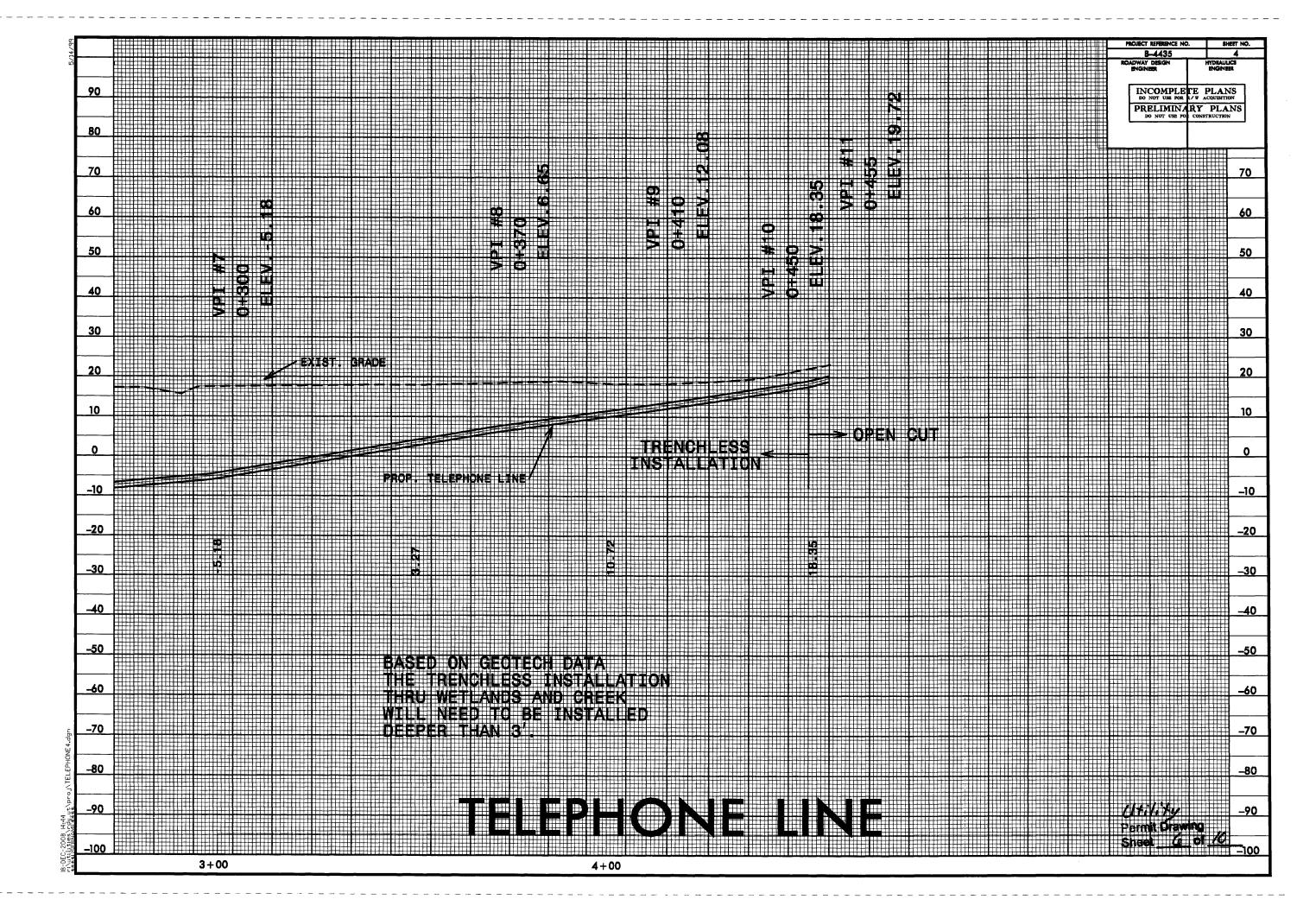
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

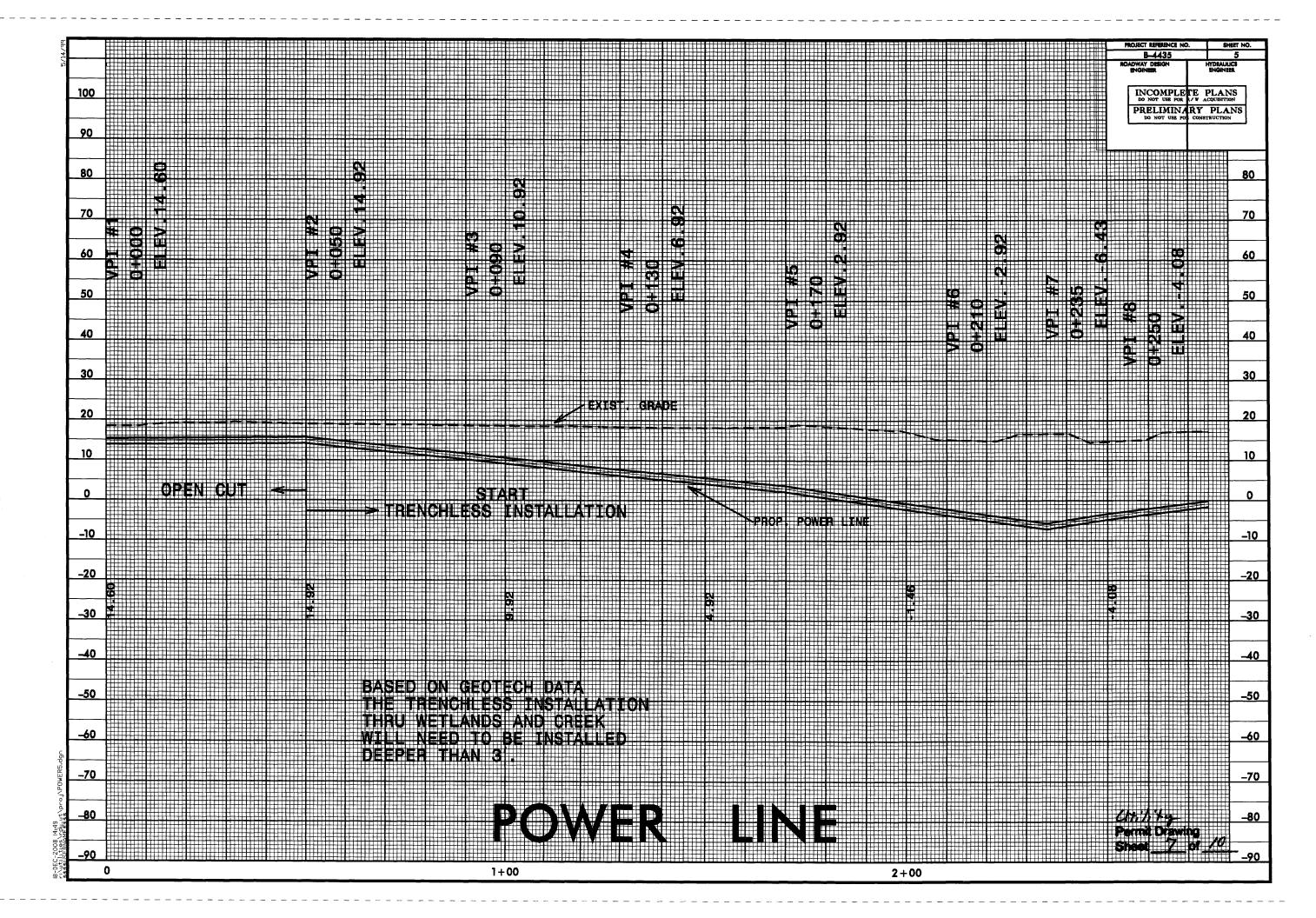


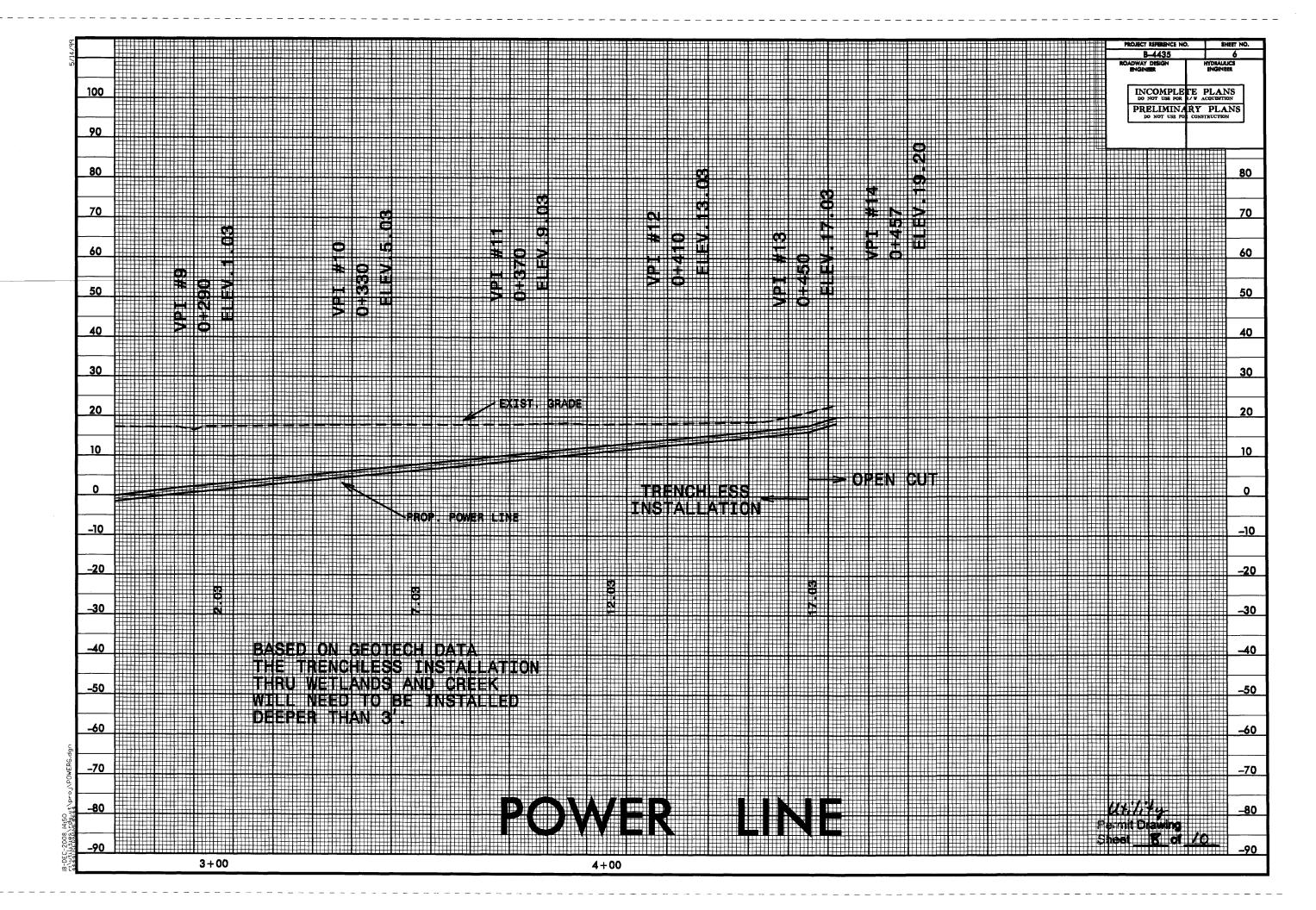


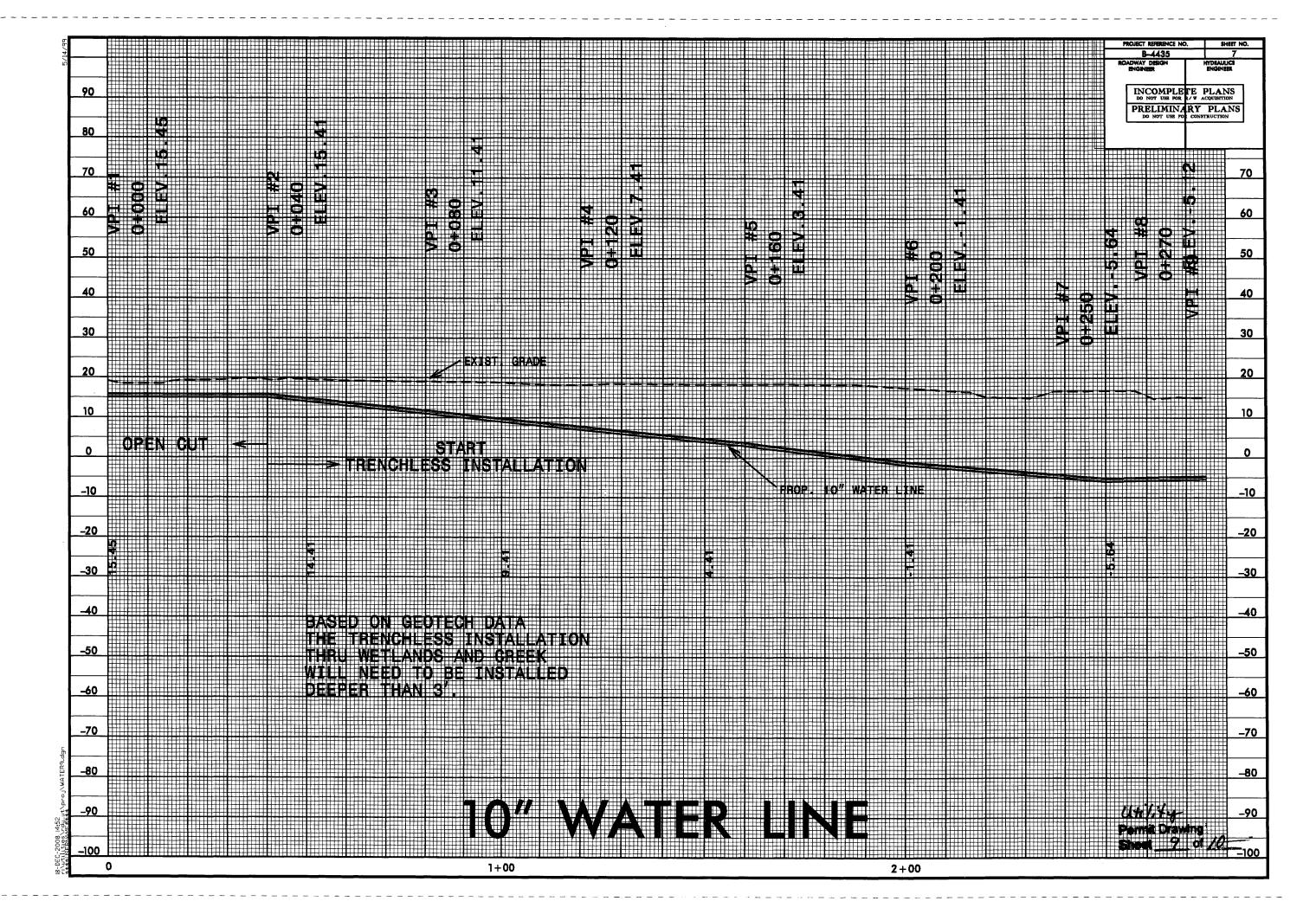


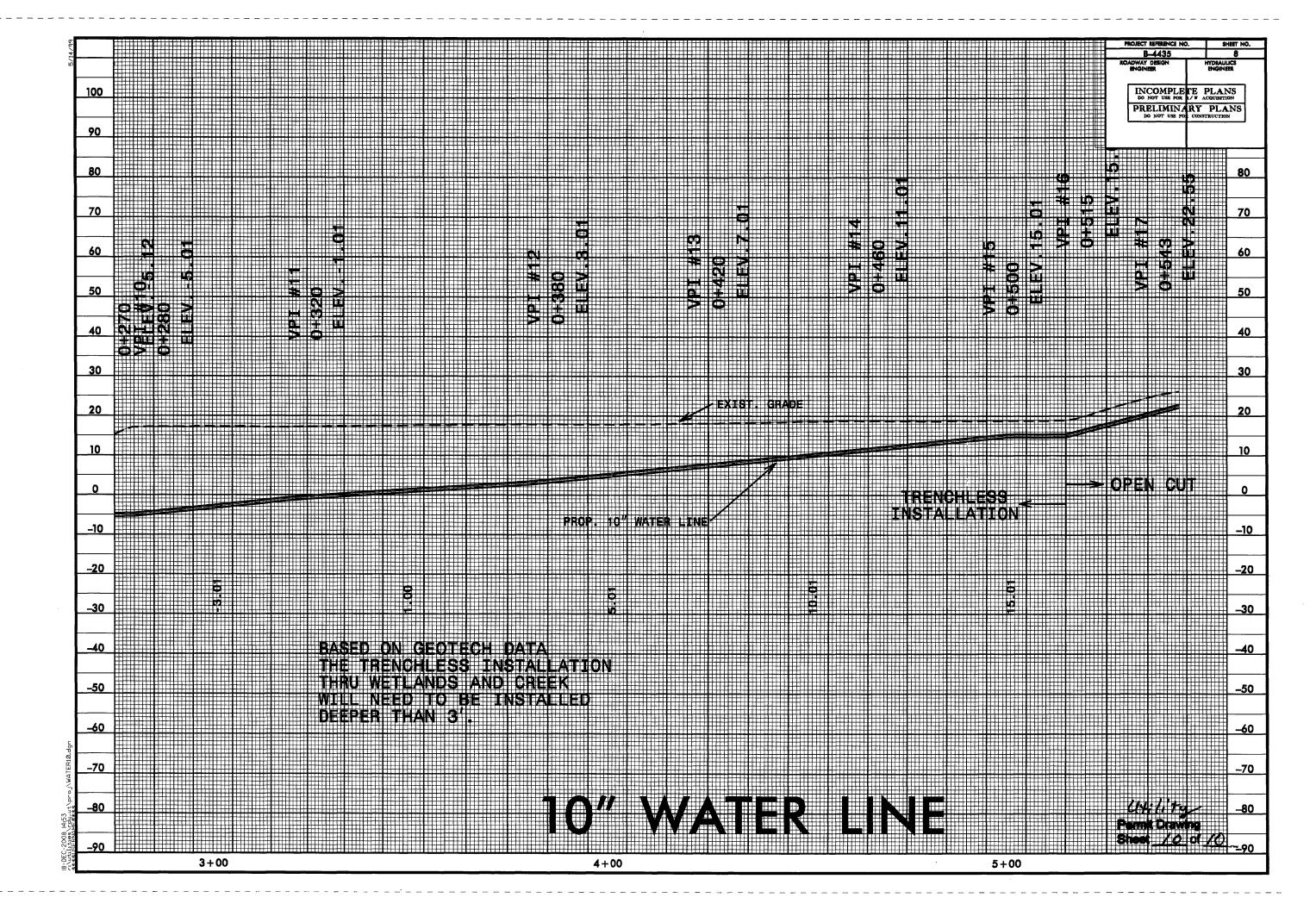






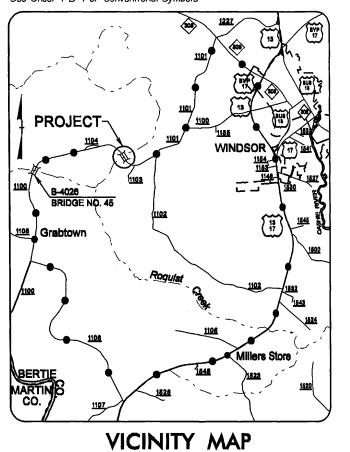






TIP PROJECT: B-4435

See Sheet 1-A For Index of Sheets See Sheet 1-B For Conventional Symbols



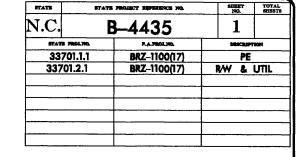
• DETOUR ROUTE

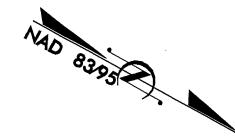
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

BERTIE COUNTY

LOCATION: BRIDGE NO. 44 OVER ROQUIST CREEK ON SR 1100

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE





STA. 13+60 -L- B	EGIN TIP PROJECT B-4435	
BEGI -L- S	BEIDGE TOWNSHIP NOODS TOWNSHIP STATE OF THE	<u>BRIDGE</u> A. 16+36
10 SR 1101	SR 1100 GRABTOWN ROAD	TO GRAPIOWS
	SO STATE SOO	
	5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PROJECT B_AA25

THIS PROJECT WAS DESIGNED USING THE SUB REGIONAL TIER DESIGN GUIDELINES FOR BRIDGE PROJECTS.

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.



Collector | Co

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4435 = 0.050 MILES
LENGTH STRUCTURE TIP PROJECT B-4435 = 0.027 MILES

TOTAL LENGTH TIP PROJECT B-4435 = 0.077 MILES

Proposed In the Office of:

DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Releigh NC, 27610

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

January 7, 2009

LETTING DATE:

January 19, 2010

RON McCOLLUM, PE

PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

P.E.

P.K.

EIGNATURE:

ROADWAY DESIGN
ENGINEER



STATE HIGHWAY DESIGN ENGINEER

*S.U.E. = Subsurface Utility Engineering

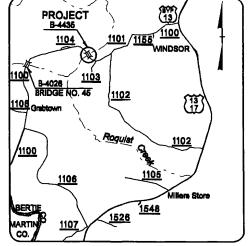
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

					Water Manhole	_
BOUNDARIES AND PROPERTY:					Water Meter	
State Line					Water Valve	
County Line	Standard Gauge	CSX TRAISPORTATION	—————————————————————————————————————			
Township Line	RR Signal Milepost	DIE. 001 30	EXISTING STRUCTURES:		Water Hydrant	
City Line	Switch	SWITCH	MAJOR:		Recorded U/G Water Line	
Reservation Line	RR Abandoned			CONC	Designated U/G Water Line (S.U.E.*)	
Property Line	RR Dismantled		Bridge Wing Wall, Head Wall and End Wall -) conc ww [Above Ground Water Line	A/G_Water
Edisting Iron Pin	o RIGHT OF WAY:		MINOR:			
Property Corner	Baseline Control Point	─ •	Head and End Wall	CONC HW	TV:	
Property Monument	Existing Right of Way Marker		Pipe Culvert		TV Satellite Dish	-
	23) Existing Right of Way Line ———		Footbridge		TV Pedestal	
ixisting Fence Line	_	— —	Drainage Box: Catch Basin, DI or JB ———	СВ	TV Tower	lacktriangle
Proposed Woven Wire Fence	Proposed Right of Way Line with		Paved Ditch Gutter		U/G TV Cable Hand Hole	-
Proposed Chain Link Fence	iron Pin and Cap Marker	_	Storm Sewer Manhole	©	Recorded U/G TV Cable	
Proposed Barbed Wire Fence	Proposed Right of Way Line With		Storm Sewer		Designated U/G TV Cable (\$.U.E.*)	— ————————————————————————————————————
Existing Wetland Boundary	•				Recorded U/G Fiber Optic Cable	TV F0
Proposed Wetland Boundary			UTILITIES:		Designated U/G Fiber Optic Cable (S.U.E.")	TV F0
•			POWER:		•	
existing Endangered Animal Boundary	Existing Easement Line		Existing Power Pole	•	GAS:	
ixisting Endangered Plant Boundary	Proposed Temporary Construction Ease		Proposed Power Pole	b	Gas Valve	-
BUILDINGS AND OTHER CULTURE:	Proposed Temporary Drainage Easemer		Existing Joint Use Pole	-	Gas Meter	- ô
Gas Pump Vent or U/G Tank Cap	O Proposed Permanent Drainage Easemen		Proposed Joint Use Pole	. - 6-	Recorded U/G Gas Line	
Sign	Proposed Permanent Utility Easement —		Power Manhole	(P)	Designated U/G Gas Line (S.U.E.*)	
Vell	Proposed Temporary Utility Easement — Proposed Permanent Easement with	TUE	Power Line Tower	\boxtimes	Above Ground Gas Line	
Small Mine	★ Iron Pin and Cap Marker		Power Transformer	<u>⊒</u> ⊠	, more circular des mile	
oundation ——————	ROADS AND RELATED FEA	ATURES:	U/G Power Cable Hand Hole	Ri	SANITARY SEWER:	
Area Outline	Existing Edge of Pavement		H-Frame Pole	•—•	Sanitary Sewer Manhole	
Cemetery	Existing Curb		Recorded U/G Power Line		Sanitary Sewer Cleanout ————————————————————————————————————	
3uilding	Proposed Slope Stakes Cut		Designated U/G Power Line (S.U.E.*)		U/G Sanitary Sewer Line —	•
School	Proposed Slope Stakes Fill		Designated GO Tower Line (3.0.E.)		Above Ground Sanitary Sewer	
Church	Proposed Wheel Chair Ramp		TELEPHONE:		Recorded SS Forced Main Line	-
Dam	Existing Metal Guardrail			_	Designated SS Forced Main Line (S.U.E.*) -	
	Proposed Guardrail		Existing Telephone Pole	•	Designated 35 Forced Main Line (5.0.E.*) -	
HYDROLOGY:				-0 -	MACINA	
Stream or Body of Water ————————————————————————————————————			Telephone Manhole	Φ	MISCELLANEOUS:	
Hydro, Pool or Reservoir ————————————————————————————————————			Telephone Booth)	Utility Pole	•
lurisdictional Streams-			Telephone Pedestal	<u> </u>	Utility Pole with Base	
Suffer Zone 1 ———————————————————————————————————		—— XXXX	Telephone Cell Tower		Utility Located Object	_
Buffer Zone 2			U/G Telephone Cable Hand Hole	Eu	Utility Traffic Signal Box	
Flow Arrow			Recorded U/G Telephone Cable		Utility Unknown U/G Line	
Disappearing Stream ————————————————————————————————————	-		Designated U/G Telephone Cable (S.U.E.*) —		U/G Tank; Water, Gas, Oil	
Spring ———	·		Recorded U/G Telephone Conduit		A/G Tank; Water, Gas, Oil ——————	
	→ Woods Line		Designated U/G Telephone Conduit (S.U.E.*)		U/G Test Hole (S.U.E.*)	•
Proposed Lateral, Tail, Head Ditch ———— 🔀	— Fibr		Recorded U/G Fiber Optics Cable	T F0	Abandoned According to Utility Records —	- AATUR
False Sump	Vineyard ────────────────────────────────────	Vineyard	Designated U/G Fiber Optics Cable (S.U.E.*)	T FO	End of Information	– E.O.I.

B-4435 I-C LOCATION AND SURVEYS

SURVEY CONTROL SHEET B-4435



VICINITY MAP

DESC.

GPS B4435-2

GPS B4435-1

*********************** ELEVATION - 24.26

E 2590924

S 64' 51' 17.9' E DIST 160.00 R/R SPIKE IN BASE OF 30 PINE *******************************

ELEVATION - 25.22

NORTH

818879.2670

819872.3370

CONTROL DATA

B44352

B44351

N 818855

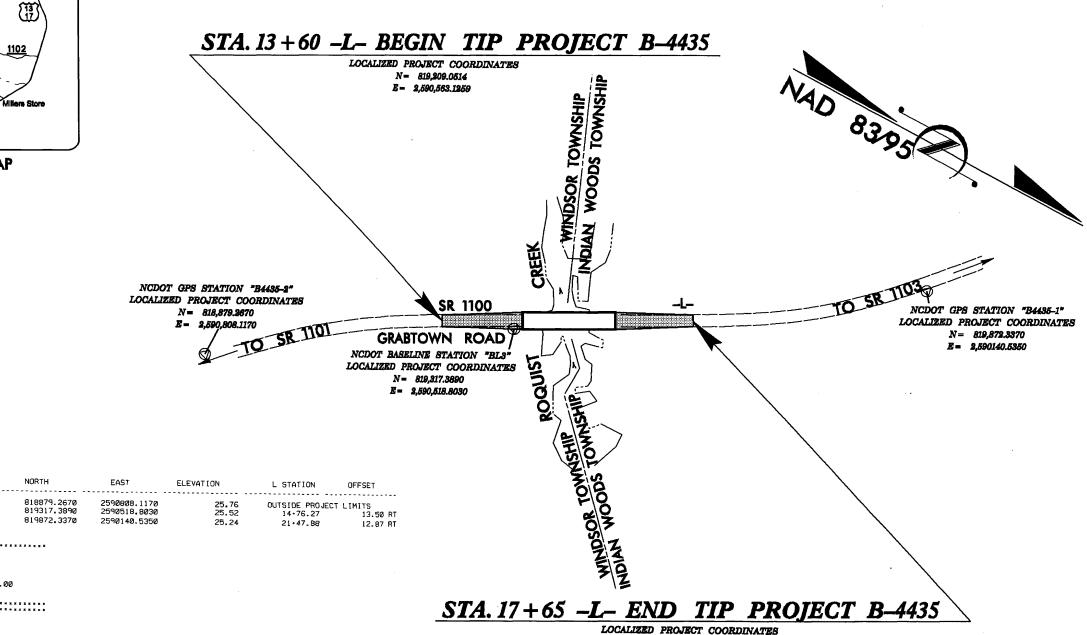
BENCHMARK DATA

L STATION 10.00

N 819862 E 2590095

L STATION 21.75 25 LEFT

R/R SPIKE IN BASE OF 12° GUM



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B4435-1"

WITH NAD 83/95 STATE PLANE GRID COORDINATES OF NORTHING: 819872.337(ft) EASTING: 2590140.535(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999592 THE N.C. LAMBERT GRID BEARING AND

LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B4435-1" TO -L- STATION 13+60 IS S*32 30' 07" E 786.467ft

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES **VERTICAL DATUM USED IS NAVD 88**

N = 819,563.6772E = 2,590,367.5104

NOTES:

THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING HTTP://WW.DOH.DOT.STATE.NC.US/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT

FILE: b4435_ls_control_080528.txt

SITE CALIBRATION PARAMETERS HAVE NOT BEEN DETERMINED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

(A) INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT. PROJECT CONTROL ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEM, BY RTK METHOD

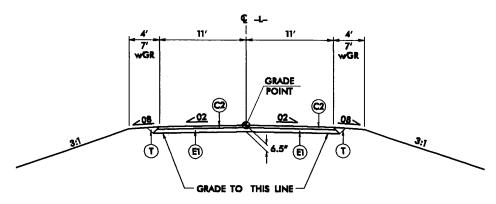
FROM PROJECT B-4026.

NOTE: DRAWING NOT TO SCALE

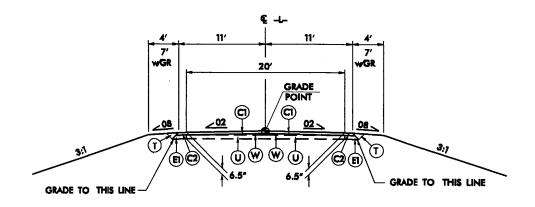
	PAVEMENT SCHEDULE Final Design
C1	PROP. APPROX. 114" ASPHALT CONCRETE SURFACE COURSE, TYPE SFS.SA, AT AN AVERAGE RATE OF 137.8 LBS. PER SQ. YD.
C2	PROP. APPROX. 212" ASPHALT CONCRETE SURFACE COURSE, TYPE 8F9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER 90, YD. PER 1 DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 11/2" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER 8Q. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
т	EARTH MATERIAL.
U	EXISTING PAVEMENT.
w	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

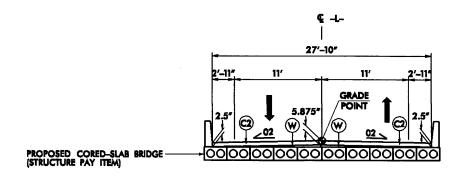
PROJECT REFERENCE NO.		SHEET NO.
B-4435		2
roadway design Engineer	P/	AVEMENT DESIGN ENGINEER
	RY	



TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2



TYPICAL SECTION ON STRUCTURE

USE TYPICAL SECTION NO. 1

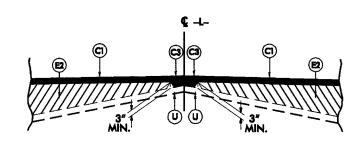
-L- STA. 14+82.00 TO -L- STA. 14+96.00 (BEGIN BRIDGE) -L- STA. 16+36.00 (END BRIDGE) TO -L- STA. 16+50.00

USE TYPICAL SECTION NO. 2

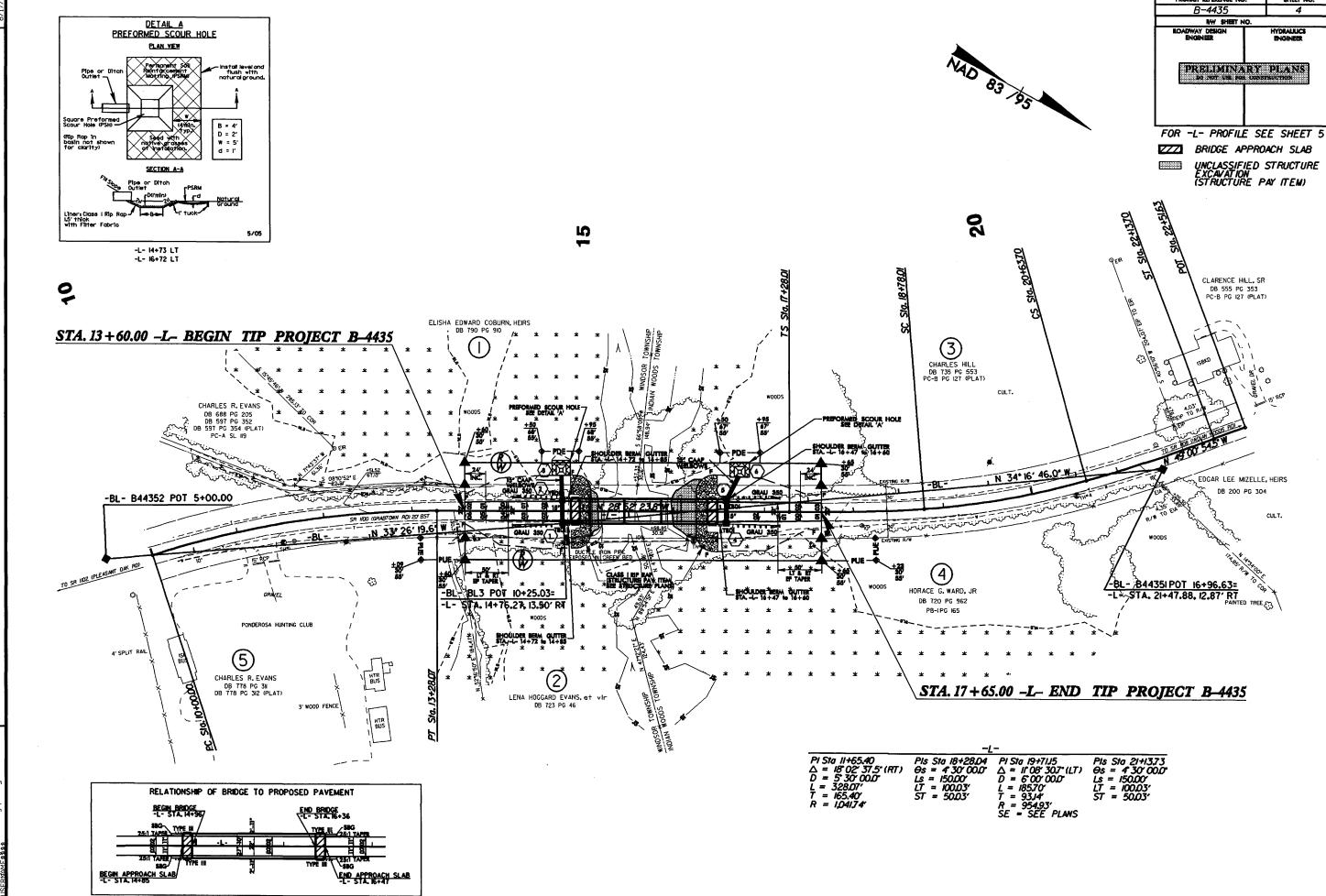
-L- STA. 13+60.00 TO -L- STA. 14+82.00 -L- STA. 16+50.00 TO -L- STA. 17+65.00

USE TYPICAL SECTION ON STRUCTURE

-L- STA. 14+96.00 (BEGIN BRIDGE) TO -L- STA. 16+36.00 (END BRIDGE)



Wedging Detail



3 - R/N REVISION - ADDED PERMANENT UTILITY EASEMENTS TO PARCELS 2.4.AND 5

4-FEB-2009 II:13 :\Roadway\Pro |\b435_rdu_pah.dan

